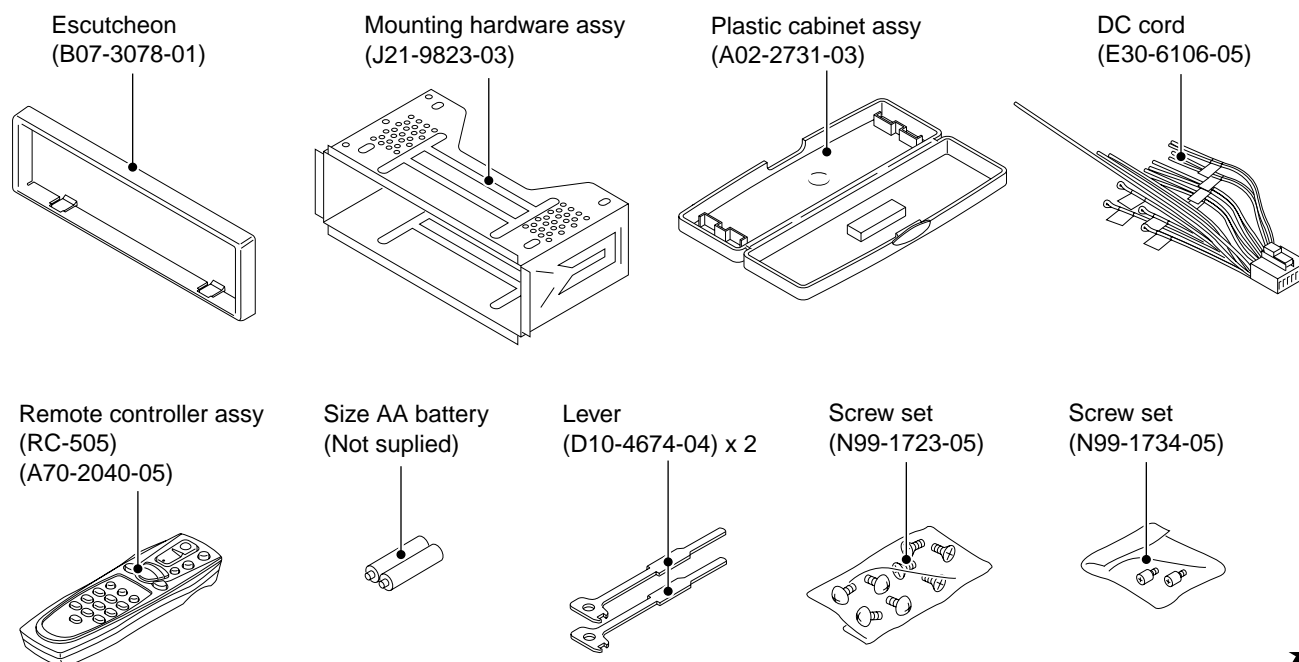
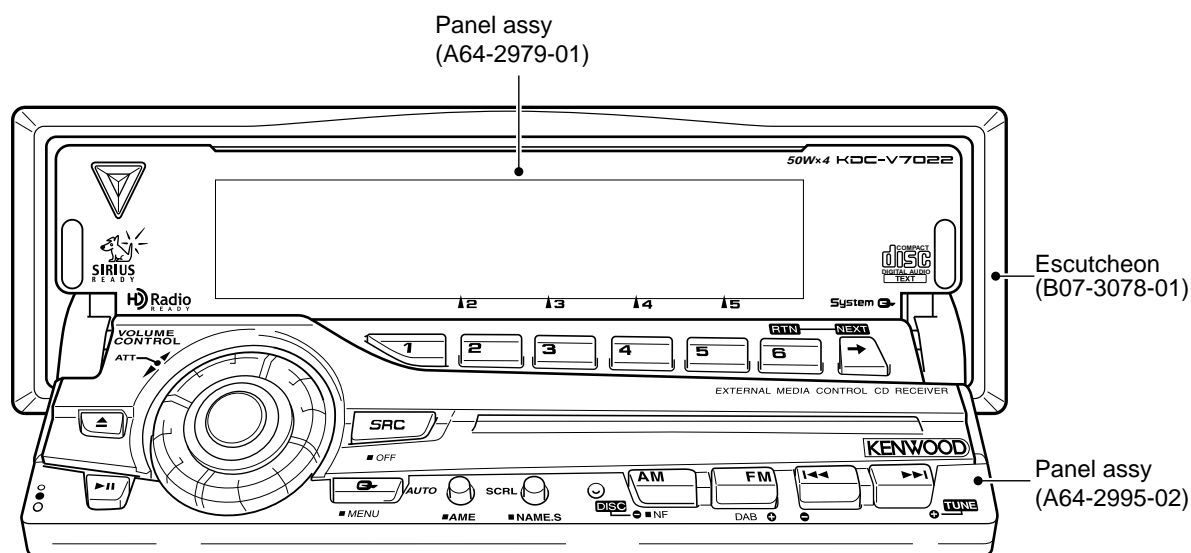


CD mechanism operation description is not in this service manual.
Please, refer to service manual X92-4030-0x (B51-7867-00).

CD mechanism extension cord : W05-0935-00



HOW TO THE PANEL MECHANISM ASSEMBLY

1. Fixed the position of operation side

(Fixed the horizontal position when the panel opened)

- ① The mounting hardware (281) of operation side is rotation (A) into the stop position with close side.
- ② As figure (B) line is just above and the gear (230) attached to pin.

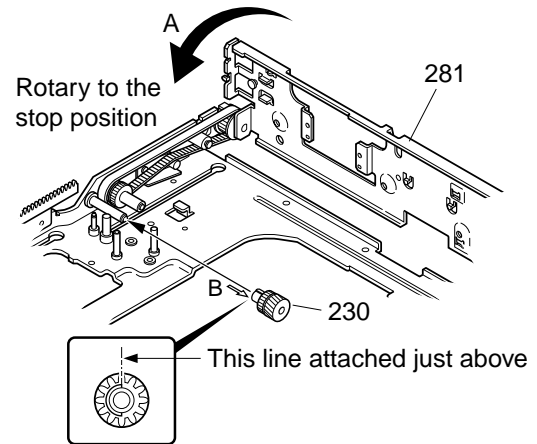
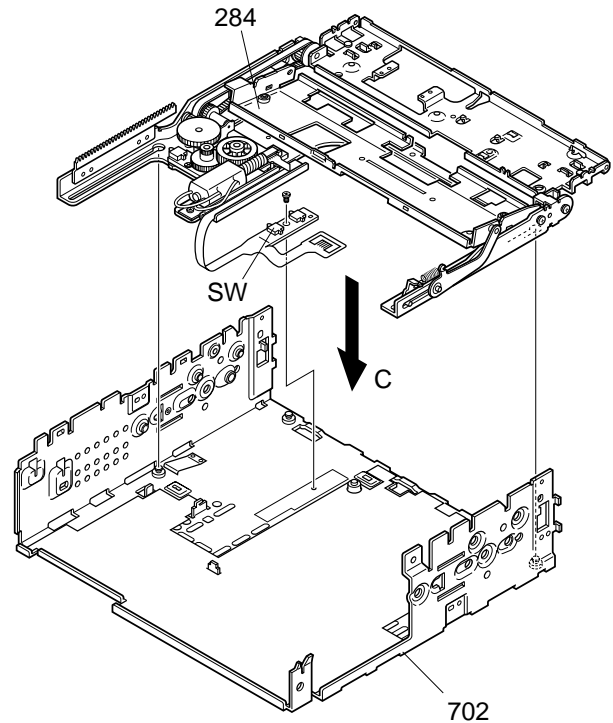


Fig. B

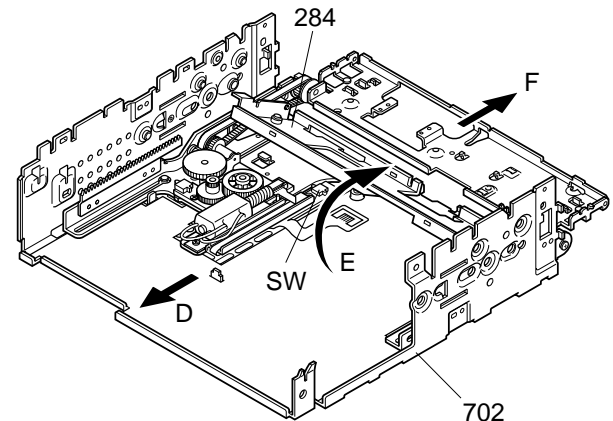
(This figure from look at B arrow)

2. The slider assembly insert to bottom chassis

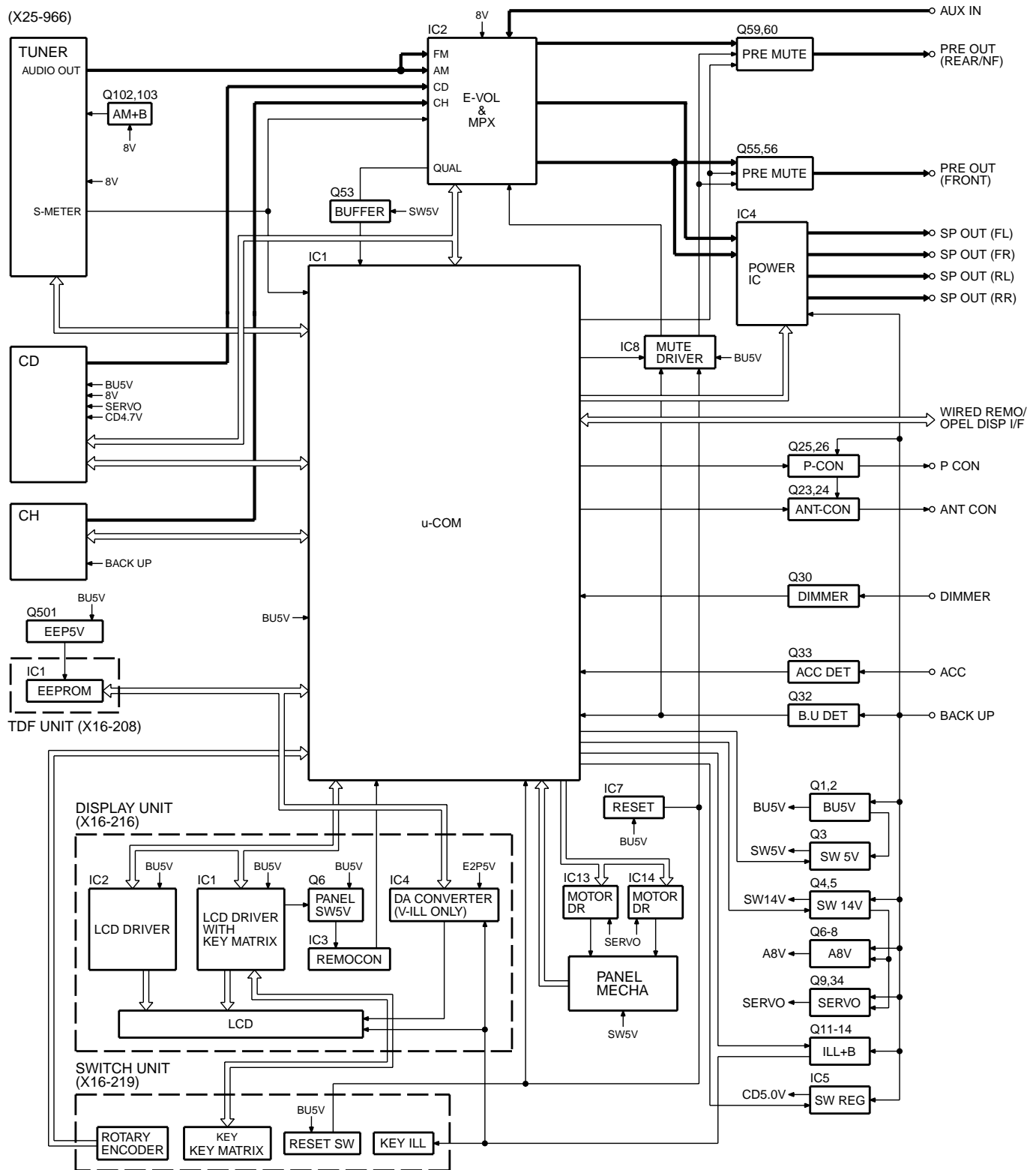
- ① The bracket for display panel (284) is leave down, insert to the chassis (702). (C)



- ② The slider assembly insert to the chassis (702) after that shift (D) direction.
 - ③ The bracket for display panel (284) is raised (E) direction.
 - ④ Keep the raising conditions, the slider assembly is shift (F) direction.
- (Note) Do not bend the knob of chassis detection switch when the slider assembly insert.



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● SUB-CIRCUIT UNIT (X16-2080-10)

Ref. No.	Application/Function	Operation/Condition/Compatibility
IC1	E2PROM	For security

● SUB-CIRCUIT UNIT (X16-2160-10)

Ref. No.	Application/Function	Operation/Condition/Compatibility
IC1	LCD Driver	KEY Input
IC2	LCD Driver	
IC3	Remote control sensor	
IC4	D/A converter	
Q1	KEY scan start SW	ON when the base goes "L".
Q5, D26	VLCD AVR	
Q6	Remote control sensor power supply SW	ON when the base goes "L".
Q11~16	Variable illumination control	
Q62~64	Variable illumination control	

● SWITCH UNIT (X16-2190-10)

Ref. No.	Application/Function	Operation/Condition/Compatibility
Q1	DSI (Disabled System Indicator)	DSI blinks when the base goes "H/L"
Q2	KEY illumination SW (GREEN)	ON (KEY illumination green) when the base goes "H"
Q3	KEY illumination SW (RED)	ON (KEY illumination red) when the base goes "H"

● ELECTRIC UNIT (X25-9660-11)

Ref. No.	Application/Function	Operation/Condition/Compatibility
IC1	System μ -com	
IC2	E-vol & N.C. & MPX	
IC3	Regulator IC for A8V	
IC4	Power IC	
IC7	Reset IC	
IC8	Logic IC for muting	
IC13, 14	Motor driver IC for panel mechanism	
IC15	ROM IC	For ROM correction.
Q1, 2	B.U.5V AVR	While BU is applied, BU5V AVR outputs +5V.
Q3	SW5V	When Q3'base goes Lo, SW5V outputs +5V.
Q4, 5	SW14V	When Q5'base goes Hi, SW14V outputs 14V.
Q6~8	AUDIO 8V AVR	When Q6'base goes Hi, A8V AVR outputs 8.4V.
Q9, 34	SERVO+B AVR	When Q34'base goes Hi, S+B AVR outputs 7.4V.
Q11~14	ILL+B AVR	When Q11'base goes Hi, AVR outputs 10.5V.
Q23, 24	P-ANT SW	When Q23'base goes Hi, P-ANT SW outputs 14V.
Q25, 26	P-CON SW	When Q26'base goes Hi, P-CON SW outputs 14V.
Q27, 28	P-CON protection	Protect Q27 by turning on when P-CON output is grounded.
Q30	Small lamp det SW	When Q30'base goes Hi, Q30 is turned on.
Q32	BU det	When Q32'base goes Hi, Q32 is turned on.
Q33	ACC det	When Q33'base goes Hi, Q33 is turned on.

COMPONENTS DESCRIPTION

Ref. No.	Application/Function	Operation/Condition/Compatibility
Q51, 52	Mute driver	When a base goes Lo, mute driver is turned on.
Q53	Noise buffer	
Q54	E-vol mute SW	When a base goes Hi, mute SW is turned on.
Q55, 56	Pre-out mute SW	When a base goes Hi, Pre-out is muted.
Q59, 60	Pre-out mute SW	When a base goes Hi, Pre-out is muted.
Q63	E2P 5V SW	When Q63's base goes Lo, E2P 5V is out.
Q102, 103	AM+B SW	When Q102's base goes Hi, AM+B is out.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER : UPD703030GC015 (X25-966 : IC1)

Pin No.	Pin Name	I/O	Module	Purpose / Description	Truth table	Processing Operation
1	PLL_DATA	I/O	Tuner	Data output/input with F/E.		
2	AM+B	I/O	Power supply	AM+B.		AM operation : H
3	(FM+B)	O	Power supply	FM+B (S01 F/E only).		FM operation : H, Last FM : H (With RDS, RBDS model)
4	V_ILL PAN_E2P DATA	I/O	To panel	V-ILL D/A converter (V-ILL, LCD), E2PROM data.		
5	V_ILL PAN_E2P CLK	I/O	To panel	V-ILL D/A converter (V-ILL, LCD), E2PROM clock.		
6	EVDD	-				
7	EVSS	-				
8	AFS	O	Tuner	Noise detection time constant switching.		FM seek, AF search : L, Receiving : H, Auto 0 : L
9	BEEP	O	Audio	Beep output.		
10	REMO	I	Extra	Remote control input (Panel, External display).		
11	P_MUTE	O	Audio	Power IC MUTE output.		Power OFF : L, All OFF : L, TEL mute : L
12	(SVR)	O	Audio	Power IC SVR discharge circuit control.		Power OFF momentary power dropped : H (5 second) and then L
13	IC2_SDA	I/O	CD	CD mechanism data line.		
			Audio	IC2 data line.		
			Extra	ROM correction data line.		
14	IC2_CLK	I/O	CD	CD mechanism clock line.		
			Audio	IC2 clock line.		
			Extra	ROM correction clock line.		
15	P_STBY	O	Audio	Power IC STBY output.		Power IC ON : H, Power IC OFF : L, All OFF : H
16	P_CON	I/O	Extra	Power control.		Power ON : H, Power OFF : Hi-Z, All OFF : Hi-Z
17	NC	O	Extra	Output : L (V-ILL model)		Output : L
18	TEST	-				Connect to GND.
19	TYPE2	I	Extra	Destination select.	②	
20	MUTE	O	Audio	Mute output.		ON : OPEN, OFF : L
21	PRE_MUTEL	O	Audio	PREOUT (L ch) mute.		M MUTE L is L : L (CD), Momentary power dropped : L, 2 zone, NAVI interrupt : Fixed H

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Module	Purpose / Description	Truth table	Processing Operation
22	PRE_MUTER	O	Audio	PREOUT (R ch) mute.		M MUTE R is L : L (CD), Momentary power dropped : L, 2 zone, NAVI interrupt : Fixed H
23	BU_DET	I	Extra	Momentary power dropped detection.		Backup : L, No backup, momentary power dropped : H
24	ACC_DET	I	Extra	ACC detection.		With ACC : L, Without ACC : H
25	SW5V	I/O	Power supply	5V power supply.		ON : L, OFF : Hi-Z
26	NC	O		NC (Without EXT_AMP_CONT model)		Output : L
27	DIMMER	I	Extra	Small lamp detection.		ON : L, OFF : H
28	ANT_CON	O	Extra	Antenna control.	②	Tuner ON : H, Other source With RDS last FM : H, Other source with RDBS TI ON last FM : H
29	P_ON	I/O	Power supply	SW 14V, SW 5V control, AD reference voltage control output.		Power ON : H, Power OFF : Hi-Z
30	ILL_ON	I/O	Power supply	FL, illumination output.		ON : H, OFF : Hi-Z
31	RESET	-				
32	XT1	-		Sub clock.		32.768kHz
33	XT2	-		Sub clock.		32.768kHz
34	REGC	-				Connect to 1μF capacitor.
35	X2	-		Main clock.		20MHz
36	X1	-		Main clock.		20MHz
37	VSS	-				
38	VDD	-				
39	CLKOUT	-				
40	LX_REQ_M	O	LX	Communication request to external slave.		Request : L
41	LX_MUTE	I	LX	Mute request from external slave.		Mute ON : H
42	LX_CON	O	LX	External slave select.		ON : H, OFF : L
43	LX_RST	O	LX	Reset output to external slave μ-com.		Normally : L, After system reset : H (400ms or more) and then L
44	NC	O		NC (Without WMA, MP3 model)		Output : L
45	TYPE0	I	Extra	Destination select.	②	
46	TYPE1	I	Extra	Destination select.	②	
47	IC2_TYPE0	I	Extra	IC2 destination.	②	
48	IC2_TYPE1	I	Extra	IC2 destination.	②	
49	NC	O		NC		Output : L
50	E2P5V	I/O	Power supply	E2PROM, DA converter power supply control.		ON : L, OFF : Hi-Z
51	DSI	I/O	To panel	DSI control.		ON : L, OFF : Hi-Z
52	L_CE	O	To panel	Chip enable output to LCD driver.		
53	L_INH	O	To panel	Inhibit signal output to LCD driver.		Normally : H, Reset, momentary power dropped : L
54	VOL A	I	To panel	VOL input.		
55	BVDD	-				
56	BVSS	-				
57	VOL B	I	To panel	VOL input.		
58	M_RST	O	CD	Reset output to CD mechanism.		Normally : H, Reset : L (Per mechanism control)
59	M_STOP	O	CD	Stop request to CD mechanism.		Stop : L, CD : H

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Module	Purpose / Description	Truth table	Processing Operation
60	CD_SW3	I	CD	DC down switch detection.		Chuckling : H
61	LO/EJ	I/O	CD	CD mechanism loading/eject switch.		Stop, brake : Hi-Z, Loading : L, Eject : H
62	MOSW	O	CD	CD mechanism motor driver switch.		Loading, eject, brake : H
63	FPM MOTOR B	O	P-mecha	FPM mechanism (Slider) control.	③	
64	FPM MOTOR F	O	P-mecha	FPM mechanism (Slider) control.	③	
65	FPM MOTOR O	O	P-mecha	FPM mechanism (Angle) control.	③	
66	FPM MOTOR C	O	P-mecha	FPM mechanism (Angle) control.	③	
67	NC	O		NC (Without external display model)		Output : L
68	NC	O		NC (Without external display model)		Output : L
69	NC	O		NC (Without external display model)		Output : L
70	M_MUTER	I	CD	Mute request form CD mechanism. (R ch).		ON : L (CD)
71	AVDD	-				
72	AVSS	-				
73	AVREF	-		Connect to P_ON (29 pin).		
74	M_MUTEL	I	CD	Mute request form CD mechanism. (L ch).		ON : L (CD)
75	PAN_DET	I	To panel	Panel E2PROM detection.		With : L, Without : H
76	NC	I		NC (Without TEL-MUTE model)		Connect to GND.
77	FPM SW4	I	P-mecha	FPM mechanism position detection, mechanism detection.	③	3.75V or more : No mechanism, 1.25V or more : H, Less than 1.25V : L
78	FPM SW1	I	P-mecha	FPM mechanism position detection.	③	
79	FPM SW2	I	P-mecha	FPM mechanism position detection.	③	
80	FPM SW3	I	P-mecha	FPM mechanism position detection.	③	
81	FPM PHOUT	I	P-mecha	FPM mechanism position detection.	③	H : 2.2V or more
82	S_METER	I	Tuner	S-meter detection.		Refer to S03 F/E control.
83	NOISE	I	Tuner	FM noise detection.		Refer to S03 F/E control.
84	IFC_OUT	I	Tuner	F/E IFC OUT input.		With station : 2.5V or more, refer to S03 F/E control.
85	NC (POWER_DET)	I	Extra	Power IC DC offset detection.		03 model not used. Connect to GND.
86	NC	O		NC (Except J type)		Output : L
87	NC	I		NC (Without RDS, RBDS model)		Connecto to GND.
88	LX_REQ_S	I	LX	Receive request from external slave.		Request : L
89	KEY_REQ	I	To panel	Communication request from LCD driver		
90	CD_SW1	I	CD	Loading switch detection.		Loading start power off : L
91	CD_SW2	I	CD	12cm disc detection switch.		12cm disc power off : L
92	NC	I		NC (Without RDS, RBDS model)		Connecto to GND.
93	NC	I		NC (Without RDS, RBDS model)		Connecto to GND.
94	LX_DATA_S	I	LX	Data input from external slave.		
95	LX_DATA_M	O	LX	Data output to external slave.		
96	LX_CLK	I/O	LX	Clock input/output with external slave.		
97	L_DATAL	I	To panel	Data input from LCD driver.		
98	L_DATAS	O	To panel	Data output to LCD driver.		
99	L_CLK	O	To panel	Clock output to LCD driver.		
100	PLL_CLK	I/O	Tuner	Clock input/output with F/E.		

KDC-V7022

MICROCOMPUTER'S TERMINAL DESCRIPTION

Truth table

② Destination port

MODEL	Destination	DISPLAY	TYPE2	TYPE1	TYPE0
KDC-X969	K	FL	0	0	0
KDC-MP922	K	FL	0	0	1
FX-9000	J	FL	0	1	0
KDC-PSW9524	E	FL	1	0	0
KDC-9023R	M (E)	FL	1	0	1
KDC-X869	K	FL	0	1	1
KDC-8024	E	FL	-	-	-
KDC-MP822	K	LCD	-	0	0
KDC-M7024	E	LCD	-	0	1
FX-5000	J	LCD	-	1	0
KDC-V7022	K	LCD	0	0	0
KDC-X769	K	LCD	0	0	1
KDC-722	K	LCD	0	1	0
KDC-7024 KDC-7024Y	E	LCD	0	1	1
KDC-8023	M (K)	LCD	1	0	0

Note : When FL model using TYPE2, K & J type (with ANT_CON model) : L, E type (without ANT_CON model) : H

Destination(IC2)

	TYPE0	TYPE1
Market model	L	L
Market model CRSC modification	L	H
OEM model CRSC modification	H	L
OEM model CRSC and de-emphasis modification	H	H

③ FPM MOTOR

Slide		FPM mechanism operation
FPM MOTOR B	FPM MOTOR F	
0	0	Standby
1	0	Backward operation
0	1	Forward operation
1	1	Brake

Angle		FPM mechanism operation
FPM MOTOR O	FPM MOTOR C	
0	0	Standby
1	0	Angle open direction
0	1	Angle close direction
1	1	Brake

TEST MODE

● How to enter the test mode

While pressing and holding the Preset 1 and Preset 3 keys, reset the unit.

● How to exit from the test mode

While holding the Preset 6 key, reset the unit.

(Note) The test mode cannot be terminated by reset the unit, ACC OFF, power OFF and Panel detached, momentary power down.

● Initial status in the test mode

- Sources : ALL OFF
- Display : All segments are lit.
- Volume : -10 dB (displayed as "30")
- Loudness : OFF
- CRSC : OFF regardless of the presence of switching function.
- SYSTEM Q : Flat
- WOW : All OFF
- BEEP : When pressing any keys, the buzzer generates a beep at any time.
- AUX : ON
- MENU SYSTEM Q : OFF
- Variable model : Default is white
- Multifunction : Source dependency (Preset, SCAN, etc.)

● Special display in Tuner mode

When any of the following messages is displayed in Tuner mode, the F/E may be abnormal.

- "TNE2P NG" : The EEPROM is set to the default (unstable values) because the F/E was shipped without passing through the adjustment process, etc.
- "TNCON NG" : Communication with the F/E is not possible.

● Forced switching of K3I

Each press of the Preset 6 key in Tuner mode should switch K3I from AUTO → Forced Wide → Forced Middle → Forced Narrow → AUTO.

The initial status is AUTO and the display shows these modes as follows.

- AUTO : FMA
- Forced Wide : FMW
- Forced Middle : FMM
- Forced Narrow : FMN

● Test mode specifications of the CD receiver

- Forced ejection is inhibited in the reset start operation. When the unit is reset while a CD is loaded in it, the CD is not recognized by resetting.
- Each press of the Track Up key jumps to the following track numbers:
No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (The cycle restarts from here.)
- Each press of the Track Down key jumps to the previous track number to the track being played.
- When the number of total tracks of the MP3 disc or the WMA disc is less than 9, 1st track is played.
- When the disc media is CD, A short press of the Preset 1 key jumps to the track number 28.
- When the model is equipped the CD mechanism assembly adapted for MP3 or MP3/WMA disc, the mechanism name and version number are displayed during the FL model is lower stand and Display mode of LCD model is DNPS.

● Audio-related specifications

- Pressing the * key on the remote initiates the audio adjustment mode.
- BL/F key on the Fader initials.
- Continuous holding of a remote control key is inhibited, and workings are short press of any keys.
- Bass, Middle and Treble are adjusted in 3 steps of -8 / 0 / +8 with the Track Up/Down keys (Default value at 0).
- Balance is adjusted in 3 steps of L15 / 0 / R15 with the Track Up/Down keys (Default value at 0).
- Fader is adjusted in 3 steps of R15 / 0 / F15 with the Track Up/Down keys (Default value at 0).
- HPF is adjusted in 2 steps of OFF / 170Hz (or 220Hz) with the Track Up/Down keys (Default value at OFF).
- LPF is adjusted in 2 steps of OFF / 120Hz with the Track Up/Down keys (Default value at OFF).
- Bass f, Bass Q, Bass EXT, Middle f, Middle Q and Treble f are not dealt with by the audio adjust.
- The WOW key pass during the audio adjustment as following steps.

Order	Mod.			Display
	TruBass	FOCUS	SRS	
①	OFF	OFF	OFF	SRS WOW OFF
②	ON	OFF	OFF	SRS TruBass ON
③	OFF	LOW	OFF	FOCUS LOW
④	OFF	HIGH	OFF	FOCUS HIGH
⑤	OFF	OFF	ON	SRS ON
⑥	ON	HIGH	ON	SRS WOW HIGH

TEST MODE

● Menu-related specifications

- A short press of the Q key initiates the menu mode.
- Pressing the DNPP key on the remote initiates the Menu mode.
- Continuous holding of a remote control key is inhibited, and workings are short press of any keys.
- Contrast is adjusted in 3 steps of 0 / 5 / 10 with the Track Up/Down keys (Default value at 5).

● Backup current measurement

When the unit is reset while ACC is OFF (i.e. by turning Backup ON), the MUTE terminal goes OFF in 2 seconds in place of 15 second. (The CD mechanism is not activated at this time.)

● Special display when the display is all on

Pressing the Preset keys while the power is ALL OFF displays the following information.

[PRESET 1]	Version display (8 digits, Month/Day/Hour/Minute) (Display) SYS xxxxxxxx : System microcomputer PAN xxxxxxxx : FL model only MEM xxxxxxxx : 4 contrasts FL model only
[PRESET 2]	Serial number display (8 digits) (Display) SNo xxxxxxxx
[PRESET 3]	Short press : View power ON time. (The All OFF period is not counted.) 2 seconds long press/hold : Clear power ON time at the power ON time displaying. (Display) PonTim xxxxx Max. 60000 (hours)
[PRESET 4]	Short press : Display CD operation time. 2 seconds long press/hold : Clear CD operation time at the CD operation time displaying. (Display) CDTim xxxxx Max. 60000 (hours)
[PRESET 5]	Short press : Display CD ejection count. 2 seconds long press/hold : Clear CD ejection count at the CD ejection count displaying. (Display) EjeCnt xxxxx Max. 60000 (times)
[PRESET 6]	Short press : Display Panel open/close count. 2 seconds long press/hold : Clear Panel open/close count at the Panel open/close count. (Display) PnCnt xxxxx Max. 600000 (times)
FM key	Display ROM collection version. (Display) ROM R xxx Invalid : "R -- --"
AM key	Display panel E2PROM condition. (Display) P-ROM OK (Registered code) P-ROM NG (Code is write in error) P-ROM WAIT (Unregistered code) P-ROM NON (Panel security nonfunctional)

● Panel mechanism

- Auto-panel close inhibition when set-in the CD.
- The panel operation inhibition at power ON/OFF and ACC ON/OFF.
- The panel position changing Eject ↔ Last with a short press of the PLAY/PAUSE keys.

● Other specifications

- No displays such as "CODE OFF/ON" during Power-ON.
- The LINE MUTE inhibition time is one second from 10 seconds when start-up the test mode.
- Do not write the security code with the security jig on the test mode.
- Do not write the serial with the serial writing jig on the test mode.
- OEM display output is not stop if OEM display not connection on the test mode.

● Switching the frequency span (K/M type)

While holding the Preset 1 key and Preset 5 key, reset the unit.

● Response to OEM setting

(Destination of electronic volume setting)

S03F/E models are response to OEM models option at put in μ -com 2 pin.

Its setting are following steps.

IC2 TYPE0 (47 pin)	IC2 TYPE1 (48 pin)	Description
Low	Low	① Trade model (Initial quantify)
Low	High	② Trade model (CRSC change)
High	Low	③ OEM model-ready CRSC change
High	High	④ OEM model-ready CRSC & de-emphasis change

● Security-related information

1. Forced Power ON mode (All models)

Even when the security (Cord) is approved, resetting the unit while holding the Q and Preset 4 keys makes it possible to turn the power ON for 30 minutes.

After 30 minutes have elapsed, it is not possible to return to the previous condition unless the unit is reset again. (Security code is do not clear at this mode. Put the power on fill-in.)

TEST MODE

2. Method of registration of the security code after EEPROM (F/E) replacement (Code security model)

- 1) Enter the test mode. (See How to enter the test mode)
- 2) Press the MENU key to enter the Menu mode.
- 3) When the message "Security" is displayed, press and hold the Track Up/Down key for 1 second to enter the security registration mode.
- 4) Enter the code using the FM/AM/Track Up/Track Down keys.
 FM key : Number up
 AM key : Number down
 Track Up key : Cursor right shift
 Track Down key : Cursor left shift
- 5) Hold down the Track Up key for at least 3 seconds and the message, "RE-ENTER" appears, so once again enter the code according to Step 4 above.
- 6) Press and hold the Track Up key for 3 seconds until "AP-PROVED" is displayed.
- 7) Exit from the test mode. (See 2. How to exit from the test mode)
 (Note 1) All Clear is not applicable to the security code of this model.
 (Note 2) When the F/E changed, need re-inscription because the panel security is clear.

3. Simple way to clear the security code (K type only)

- 1) During code request mode, press the Track UP key for at least 3 seconds while holding down the AUTO key. (--- will disappear)
- 2) Enter, "KCAR" with the remote controller as described below.
 - Press the remote controller 5 key twice, and press the Track Up key. (Enters a "K")
 - Press the remote controller 2 key three times, and press the Track Up key. (Enters a "C")
 - Press the remote controller 2 key once, and press the Track Up key. (Enters an "A")
 - Press the remote controller 7 key twice, and press the Track Up key. (Enters an "R")
- 3) Security function is canceled and unit sets to All-Off mode.
- 4) Code request mode appears if a mistake was made in entering the numbers.

4. How to inscription the panel security code

- 1) Enter the test mode.
- 2) Pressing the AM key on all lighting, check the "P-ROM WAIT" display.
- 3) The NEXT key is long press 2 seconds, writing the code.
- 4) Display is "P-ROM OK".
- 5) Exit from the test mode.
 (Note) E2PROM connection is NG when display is "P-ROM NG", so detach the panel and rewrite after the display is "P-ROM WAIT". This code can not clear.

● Check the SRAM

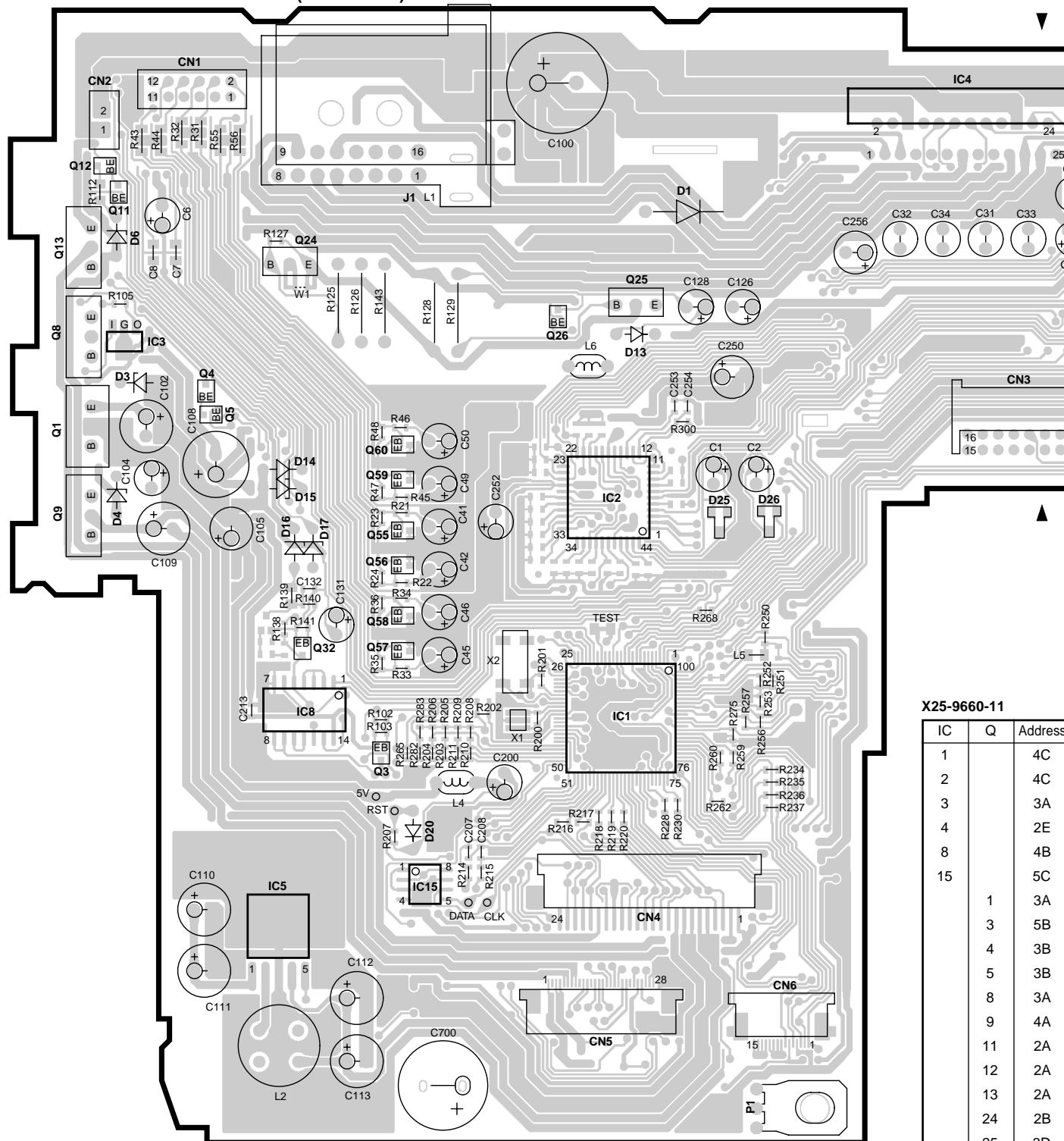
Output (Hi) to the SRAM_CHECK terminal on 101 pin when SRAM is function properly on the panel of 4 gradation FL models.

● Check the Flash ROM

- 1) Display to the following effect at ALL OFF by assortment system computer and panel for cover the customization model attach the panel with no Flash ROM.
 - Customization system computer + Flash ROM panel : All lighting
 - Non customization system computer + Non Flash ROM panel : All lighting
 - Customization system computer + Non Flash ROM panel : Panel NG
 - Non customization system computer + Flash ROM panel : Panel NG
- 2) Output (Hi) to the FLASHROM_CHECK terminal on 102 pin when Flash ROM is function properly.
- 3) Flash ROM data is initialized when pressing the AM key long hold at all lighting.
 Display is "Data Erase" in data erasing mode. Do not touch anything this mode. When the data erase completed, display is "Erase OK!!".
 If display is "Erase NG!!!!!!", Flash ROM data unable erase for some kind or another factors.
 When same effect as pressing the AM key long hold and data erase once again, Flash ROM is defective.

PC BOARD (COMPONENT SIDE VIEW)

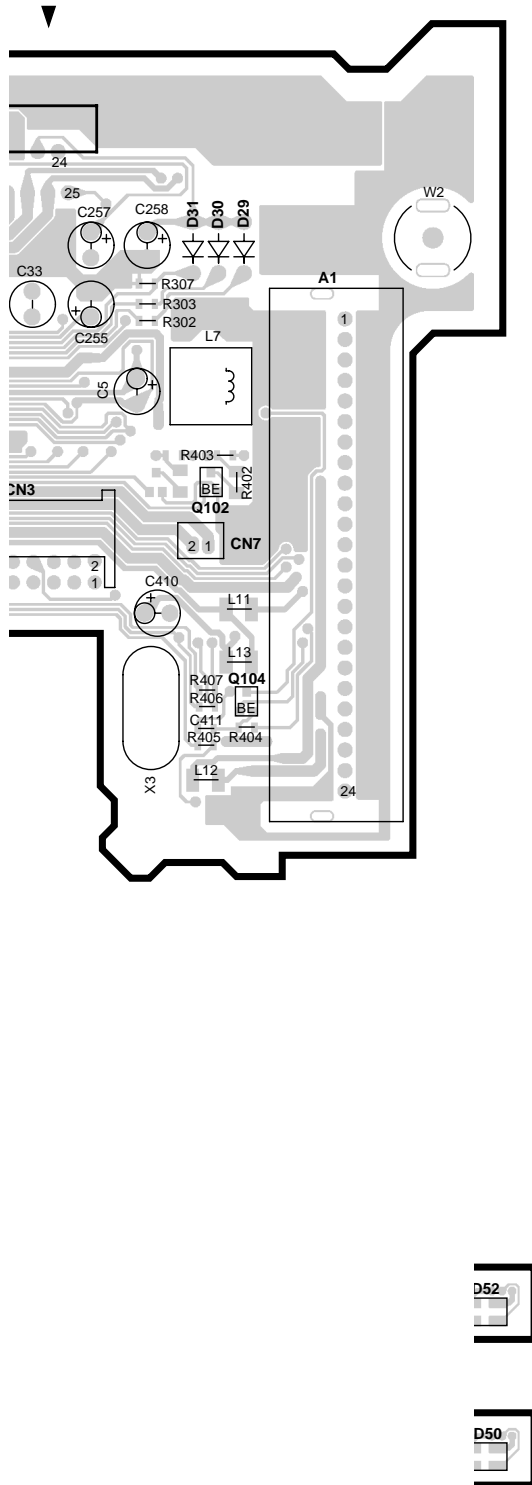
ELECTRIC UNIT X25-9660-11 (J74-1474-12)



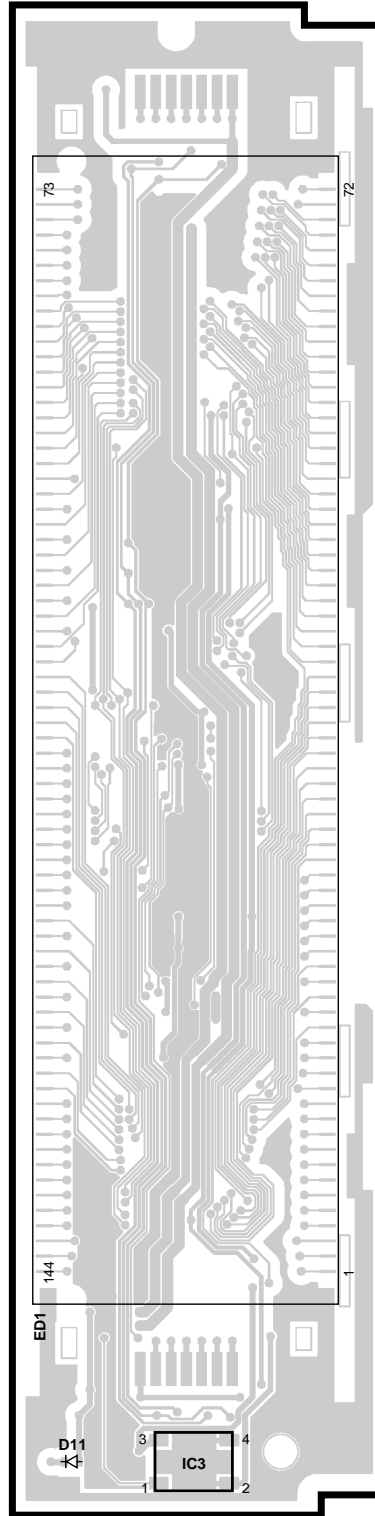
X25-9660-11

IC	Q	Address
1		4C
2		4C
3		3A
4		2E
8		4B
15		5C
	1	3A
	3	5B
	4	3B
	5	3B
	8	3A
	9	4A
	11	2A
	12	2A
	13	2A
	24	2B
	25	3D
	26	3C
	32	4B
	55	4B
	56	4B
	59	3B
	60	3F
	102	3F

Refer to the schematic diagram for the values of resistors and capacitors.



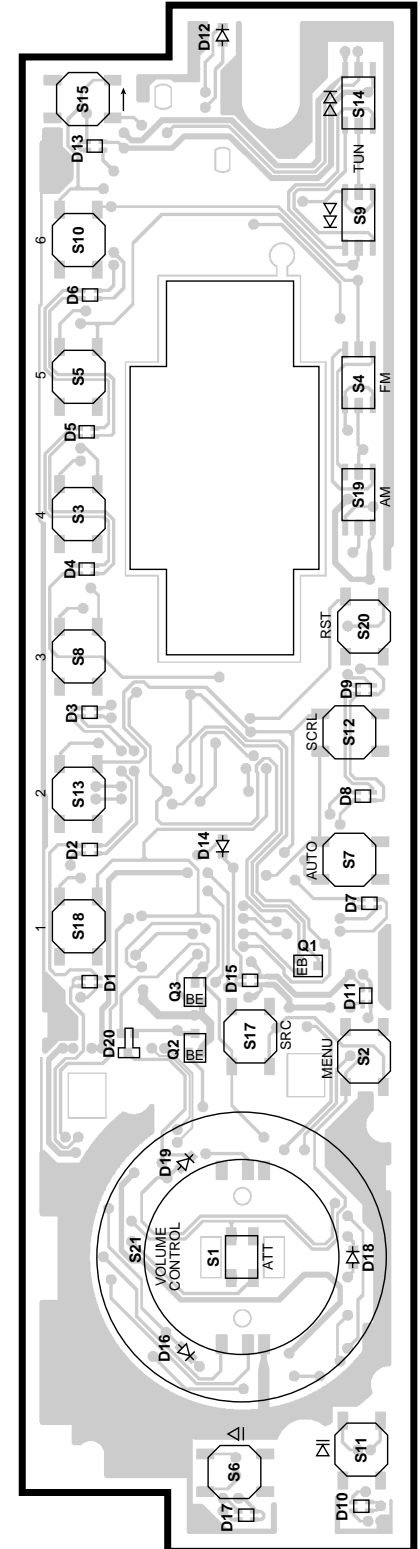
SUB-CIRCUIT UNIT
X16-2160-10 A/3 (J74-1480-12)



X16-2160-10

IC	Address
3	6H

SWITCH UNIT
X16-2190-10 (J74-1484-12)



X16-2190-10

Q	Address
1	5J
2	5I
3	5I

1

2



4



6

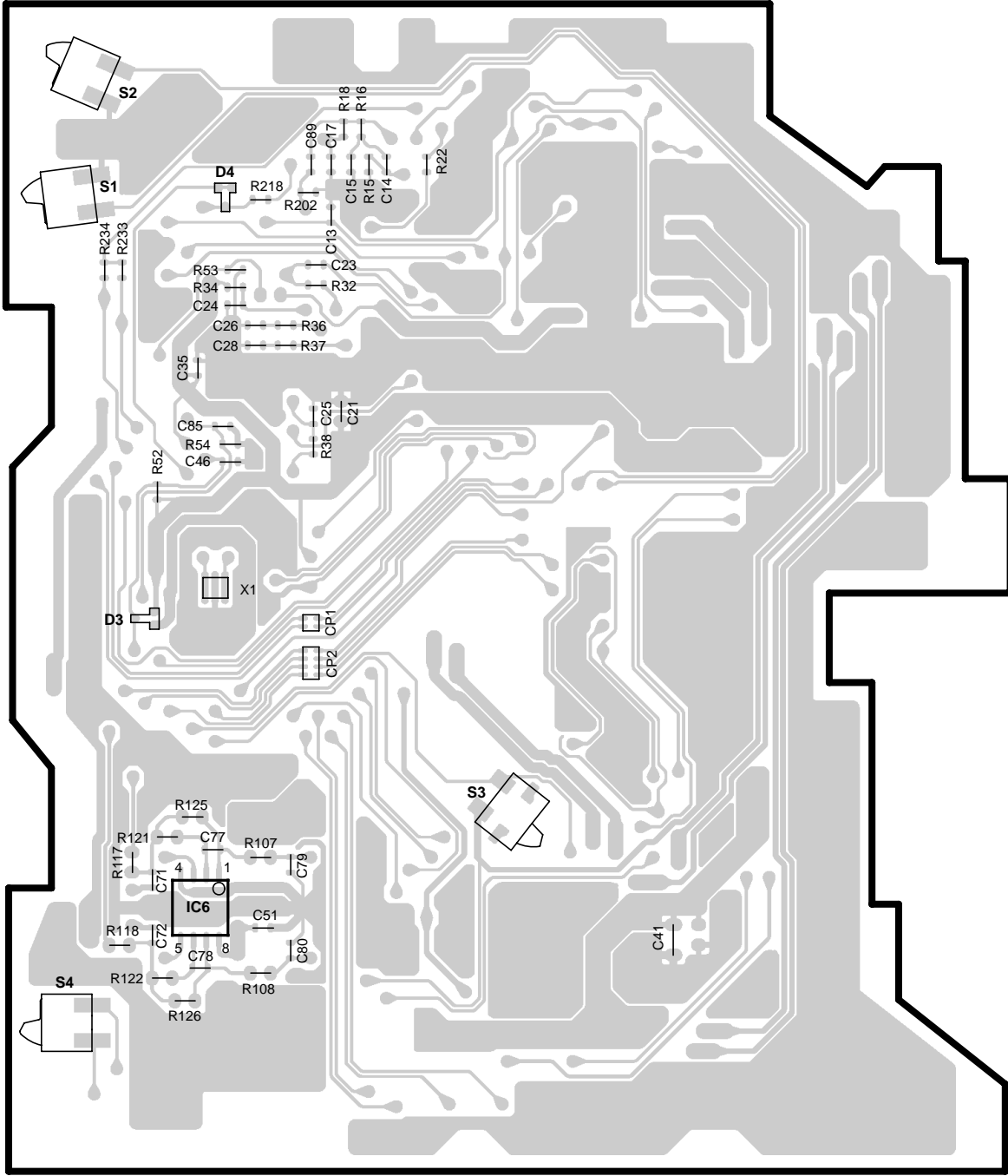
1

IC	Q	Address
7		5O
13		5M
14		6N
	2	3Q
	6	3Q
	7	3Q
	14	2Q
	23	2P
	27	2N
	28	2N
	30	4P
	33	4P
	34	4Q
	51	4O

IC	Q	Address
	52	4O
	53	4N
	54	4N
	63	6N
	103	3L

PC BOARD (COMPONENT SIDE VIEW)

CD PLAYER UNIT X32-5200-00 (J74-1243-02/1245-02)

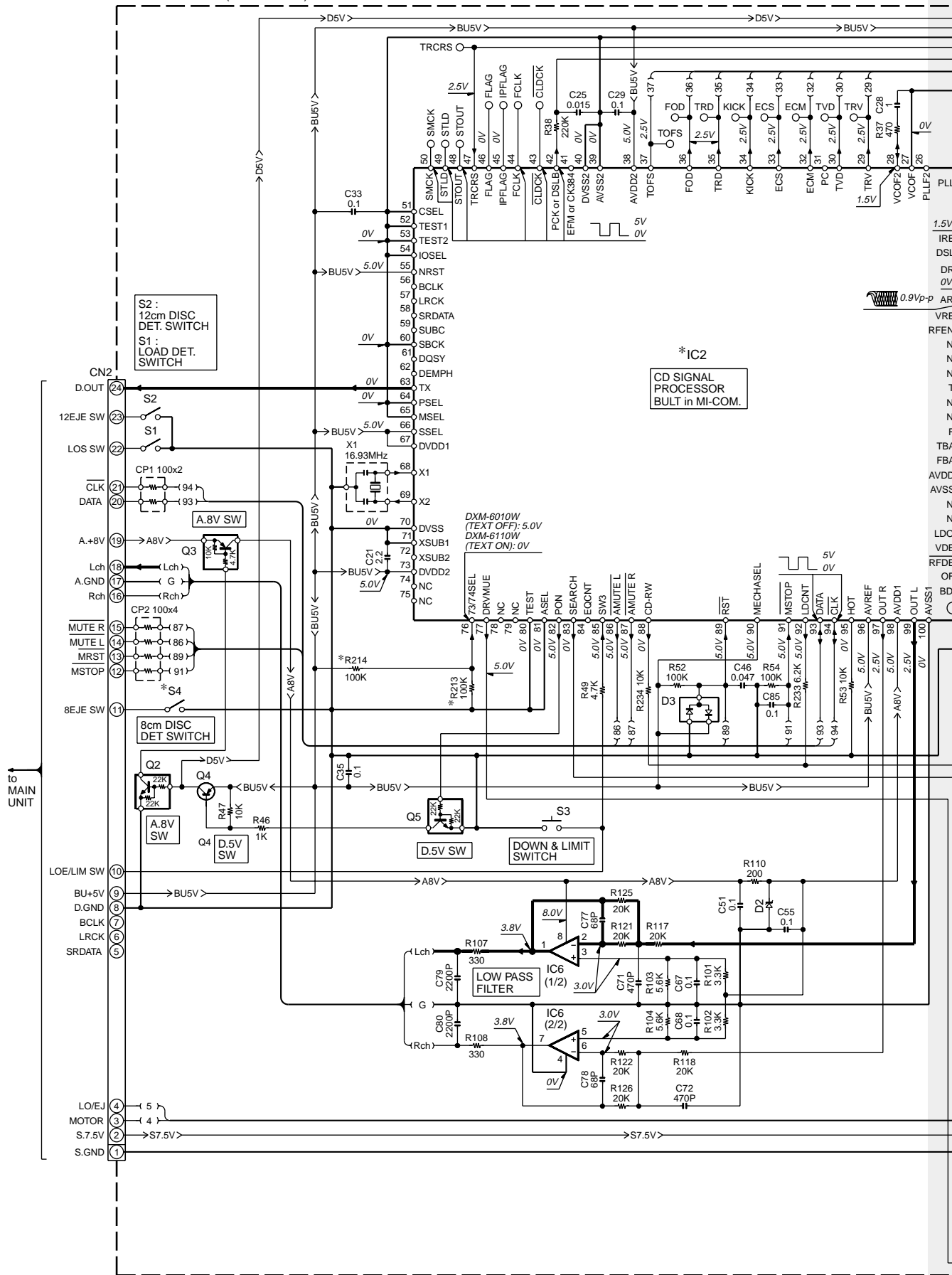


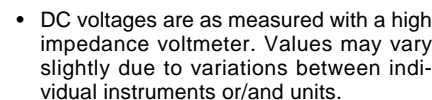
X32-5200-00

IC	Address
6	5V

Refer to the schematic diagram for the values of resistors and capacitors.

CD PLAYER UNIT (X32-5200-00)

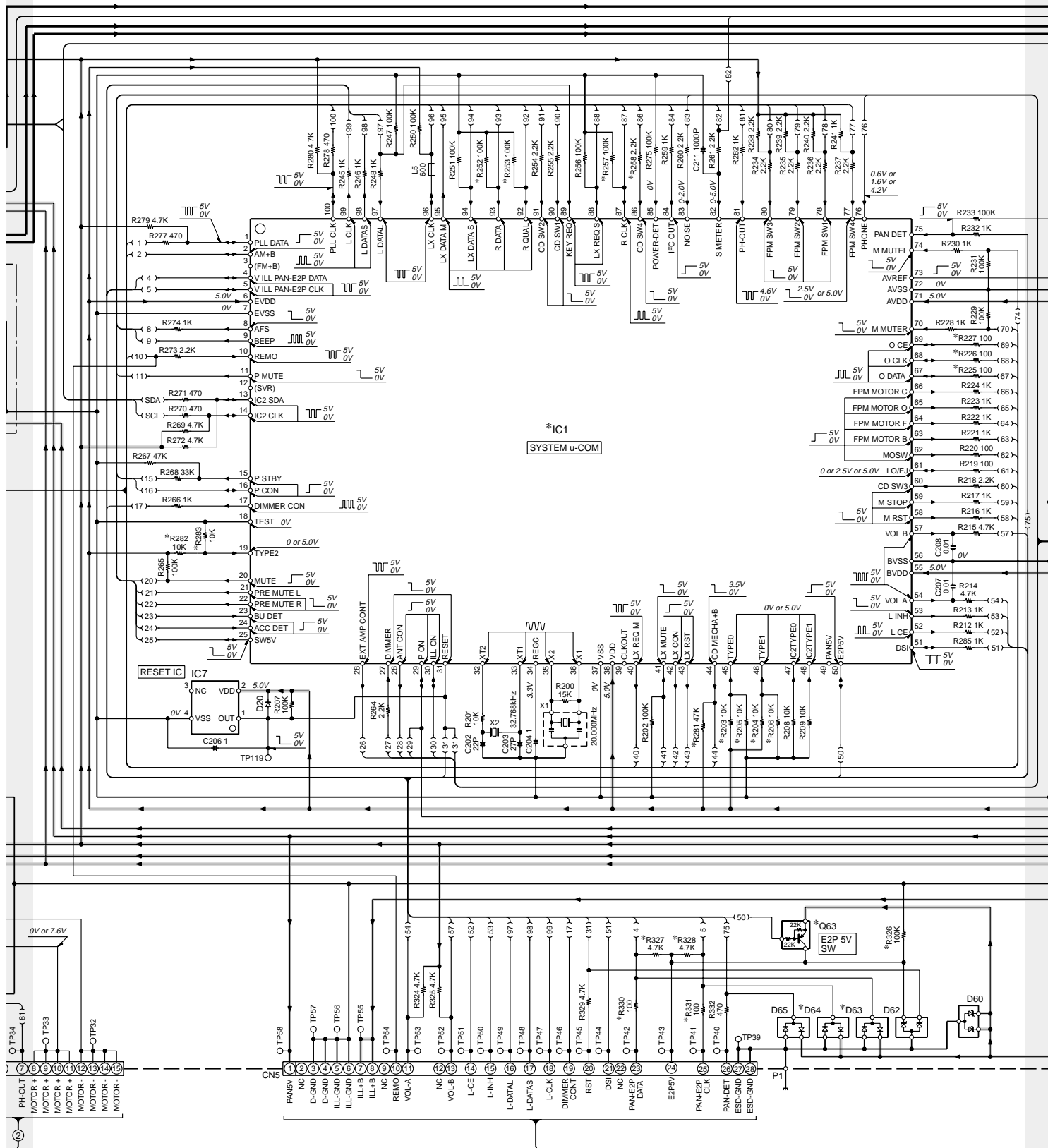




KDC-V7022

(X25-966X-XX)

MODEL NAME	UNIT No.	A	B	C	D	E	F	G	A1	C23, 24	C67	C68	C100	C127	C129	D15	D54, 55	D63, 64	IC1	Q28	Q63	R134	R135	R146	R147	R203,225-227, 308-311	R204	R205,252, 253,257	R206	R258, 320	R281	R282	R283	R326-328, 330,331	W1	
FX-5000	0-01	YES	YES	YES	YES	NO	NO	NO	X86-3730-01	YES	NO	NO	3900u16	1u6.3	YES	YES	NO	NO	UPD703030GC014	DTA114EUA	YES	100K	47K	YES	YES	NO	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO
KDC-MP822	0-10	YES	NO	YES	NO	YES	YES	NO	X86-3730-11	YES	YES	YES	2200u16	0.068u16	NO	NO	NO	NO	UPD703030GC014	DTA124EUA	YES	NO	100K	NO	NO	NO	NO	YES	YES	NO	YES	NO	NO	NO	YES	NO
KDC-V7022	0-11	NO	YES	YES	NO	YES	NO	NO	X86-3730-11	YES	YES	NO	2200u16	0.068u16	NO	NO	NO	NO	UPD703030GC015	DTA124EUA	YES	NO	100K	NO	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO
KDC-722	0-12	NO	NO	YES	NO	YES	NO	NO	X86-3730-11	NO	YES	NO	2200u16	0.068u16	NO	NO	NO	NO	UPD703030GC015	DTA124EUA	YES	NO	100K	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	YES	YES	NO
KDC-9023	0-21	NO	YES	YES	YES	YES	NO	NO	X86-3730-11	YES	YES	NO	2200u16	0.068u16	NO	NO	NO	NO	UPD703030GC015	DTA124EUA	YES	NO	100K	YES	NO	NO	NO	YES	YES	NO	NO	NO	YES	YES	NO	NO
KDC-M7024	2-71	YES	NO	NO	YES	YES	NO	YES	X86-3732-70	YES	YES	NO	3900u16	0.068u16	YES	YES	YES	YES	UPD703030GC014	DTA124EUA	YES	47K	22K	YES	YES	YES	YES	NO	NO	YES	NO	YES	NO	NO	YES	YES
KDC-7024/Y	2-72	NO	NO	NO	YES	YES	NO	YES	X86-3732-70	YES	YES	NO	3900u16	0.068u16	YES	YES	YES	YES	UPD703030GC015	DTA124EUA	YES	47K	22K	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	NO	YES	YES



KDC-V7022

328, 331
W1
NO
NO
NO
NO
NO
NO
YES
YES
YES

IC1 : *
IC2 : TDA7411
IC3 : M5237ML
IC4 : TDA7560
IC5 : SI-8050JD
IC7 : S-80837CNNB
IC8 : TC74HC02AF
IC12 : TDA7479D
IC13,14 : LB1930M
IC15 : BR24C01AF-W

Q1,8,9,13 : 2SA2057
Q2,10,14,32-34 : 2SC4081
Q3,27 : 2SA1576A
Q4,7,12,28,51,52,63 : DTA124EUA or UN5112
Q5,11,54,102 : UN5212
Q6,30 : DTC144EUA or UN5213

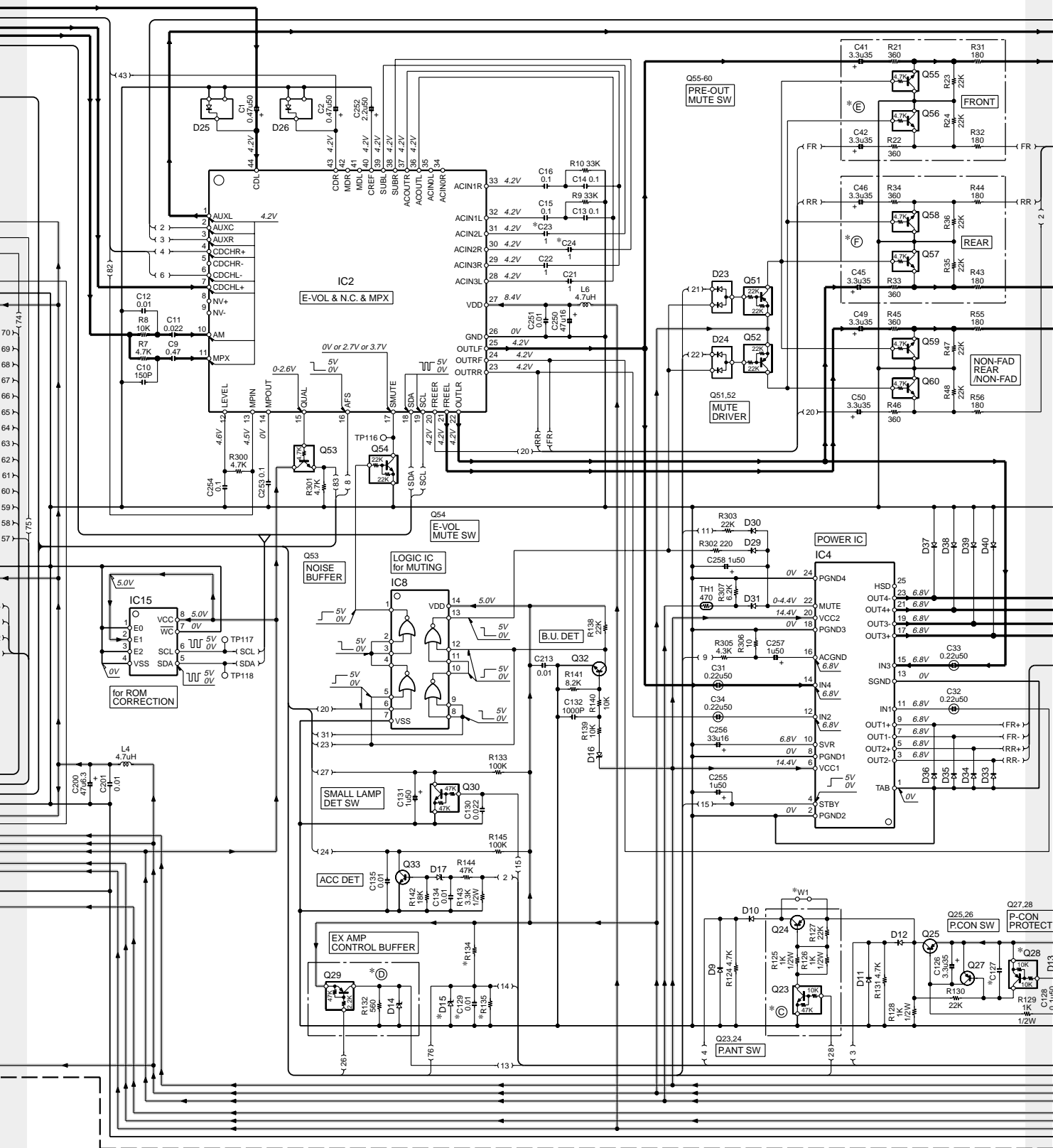
Q23,26 : DTC114YUA or UN5214
Q24,25 : 2SB1240
Q28 : *
Q29 : DTA123JK or KRA105S
Q53,55-60,104 : DTC143TUA or UN5216
Q103 : 2SB1188(Q,R)

D1 : 1N5393G-M5
D2 : RB160L-40
D3 : MA4056(N)-M
D4 : MA4082(N)-L
D5 : SFPB-54V
D6 : MA4110-L
D9,12,33-40 : 1SR154-400 or SIJ
D13,20,29-31 : 1SS133

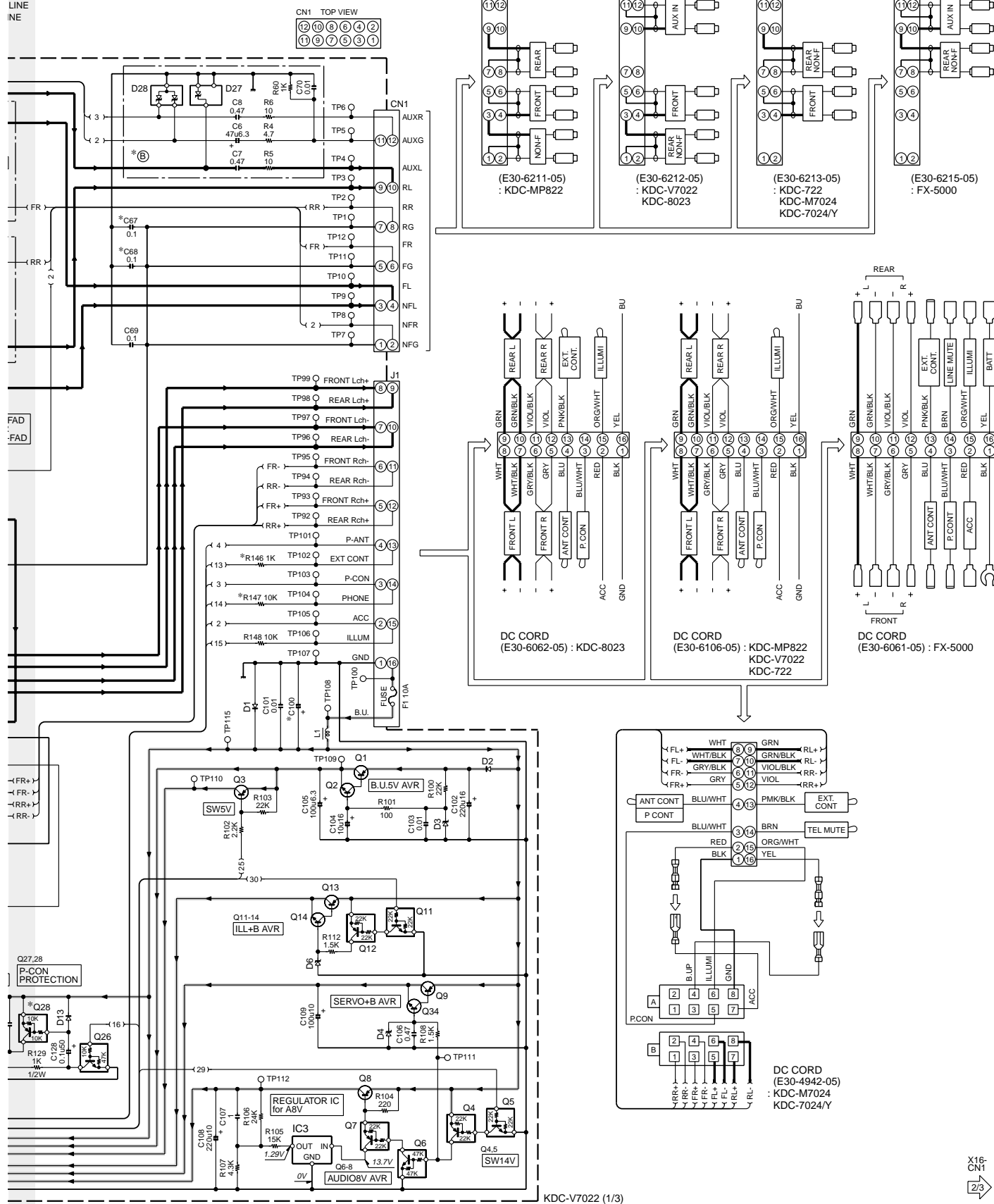
D14 : MA4056-M
D15 : MA4047-M
D16 : MA4068(N)-M
D17 : MA4062(N)-M
D23,24 : DAP202U or MA142WA
D25-27,50 : RD6.8M(B2)
D28,51 : RD6.8MW
D52-55,60,62 : MA3062WA

D63-65 : DA204U
D66 : IMSA-6801

— SIGNAL LINE
— GND LINE
— +B LINE

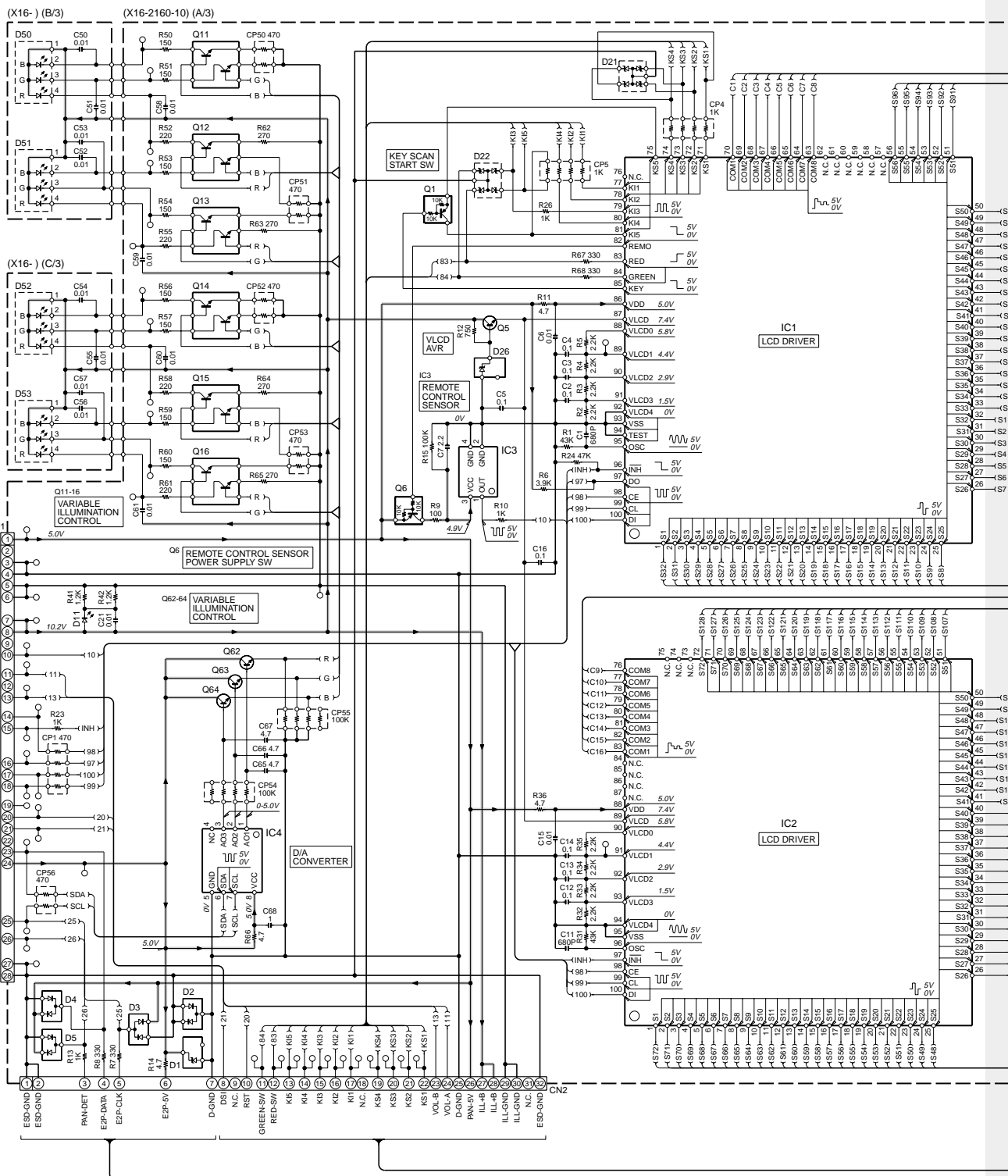


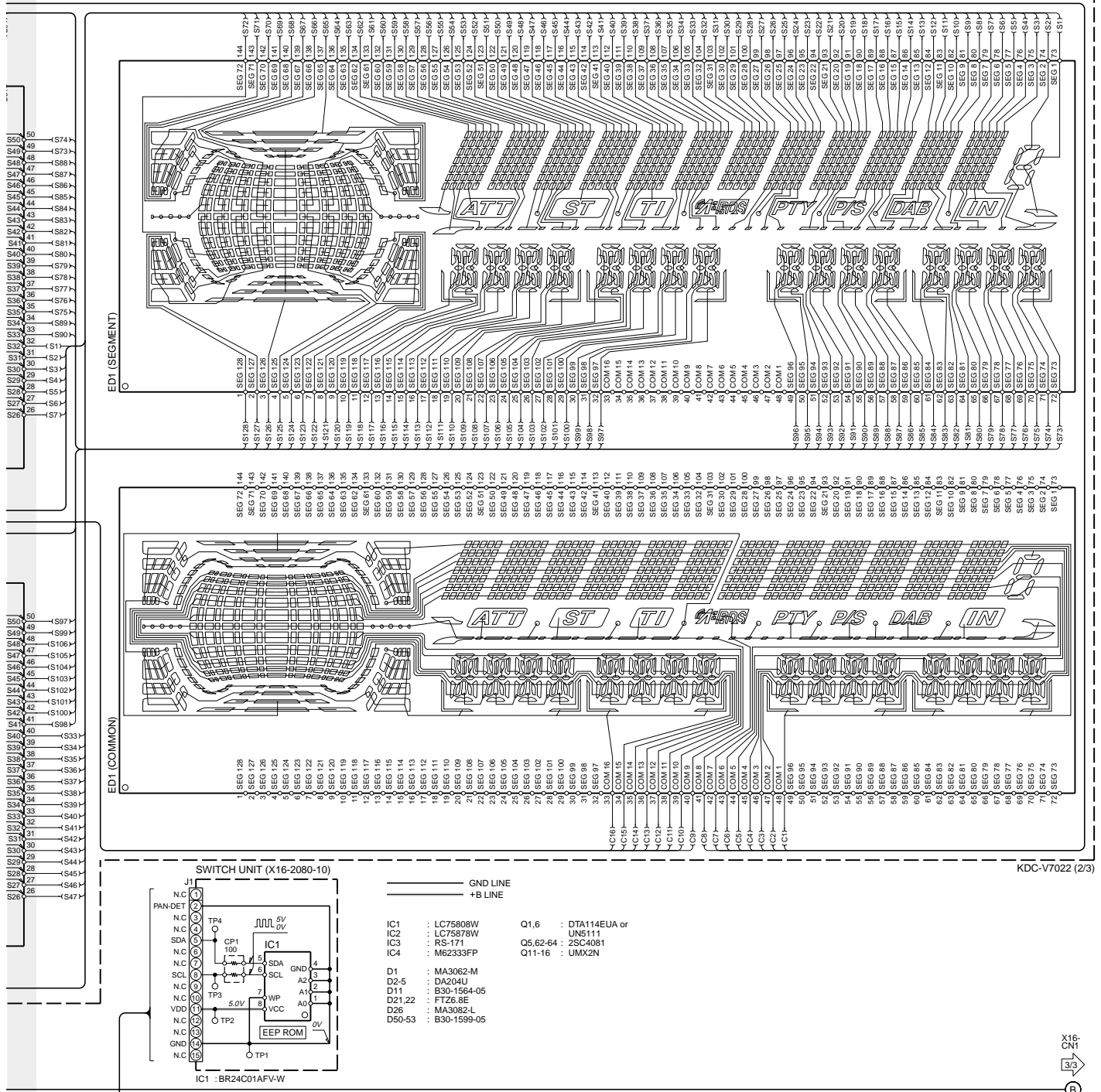
KDC-V7022

AL LINE
LINE
INE

KDC-V7022 (1/3)

X16-
CN1
2/3
A



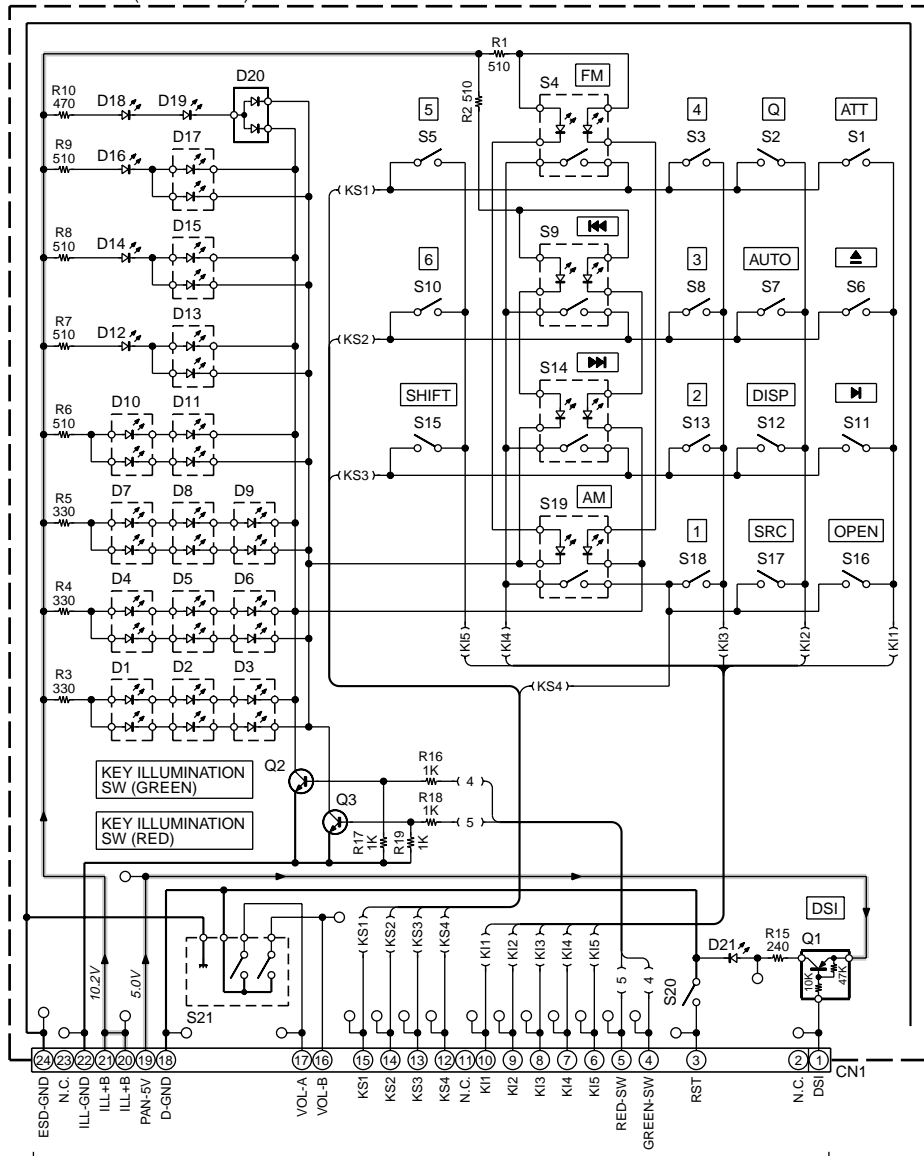


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

SWITCH UNIT (X16-2190-10)



X16-CN2
2/3
B

- Q1 : DTA114YUA or UN5114
Q2,3 : 2SC4081
D1-11,13,15,17 : B30-1605-05
D12,14,16,18,19,21 : B30-1566-05
D20 : DAP202U or MA142WA

KDC-V7022 (3/3)

DTC114YUA
DTC143TUA
UN5111
UN5114
UN5213
UN5214
UN5216
2SA1362
2SA1576A

MA142WA
UN5212

RD6.8M

2SB1188

TC74HC02AF

2SC4081

BR24C01AF-W

UMX2N

M5237ML

DTA114EUA
DTA124EUA
DTC124EUA
DTC144EUA

MCH6101

LB1930M

DAN202U

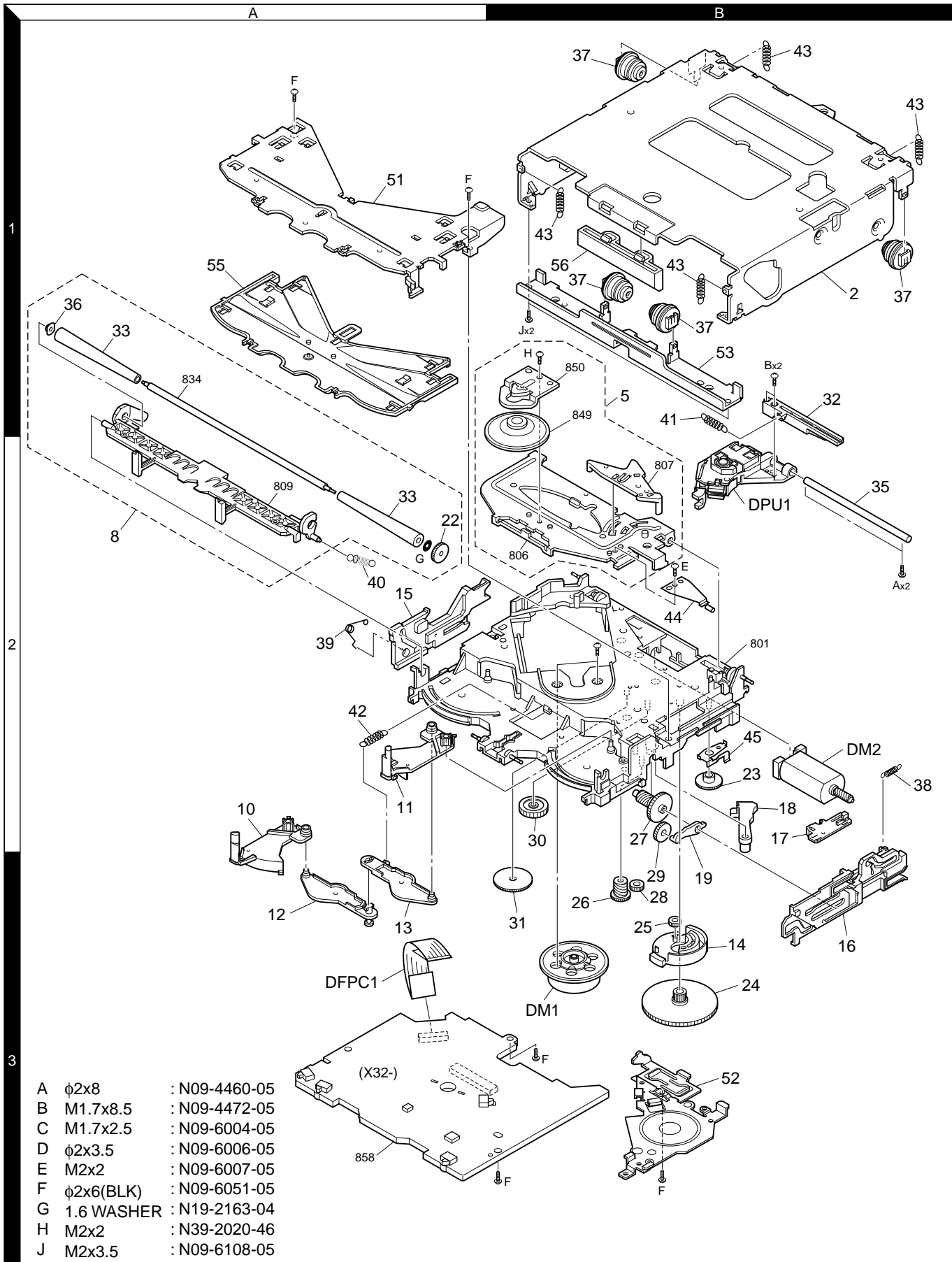
DAP202U
DA204U
DTA114YUA

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

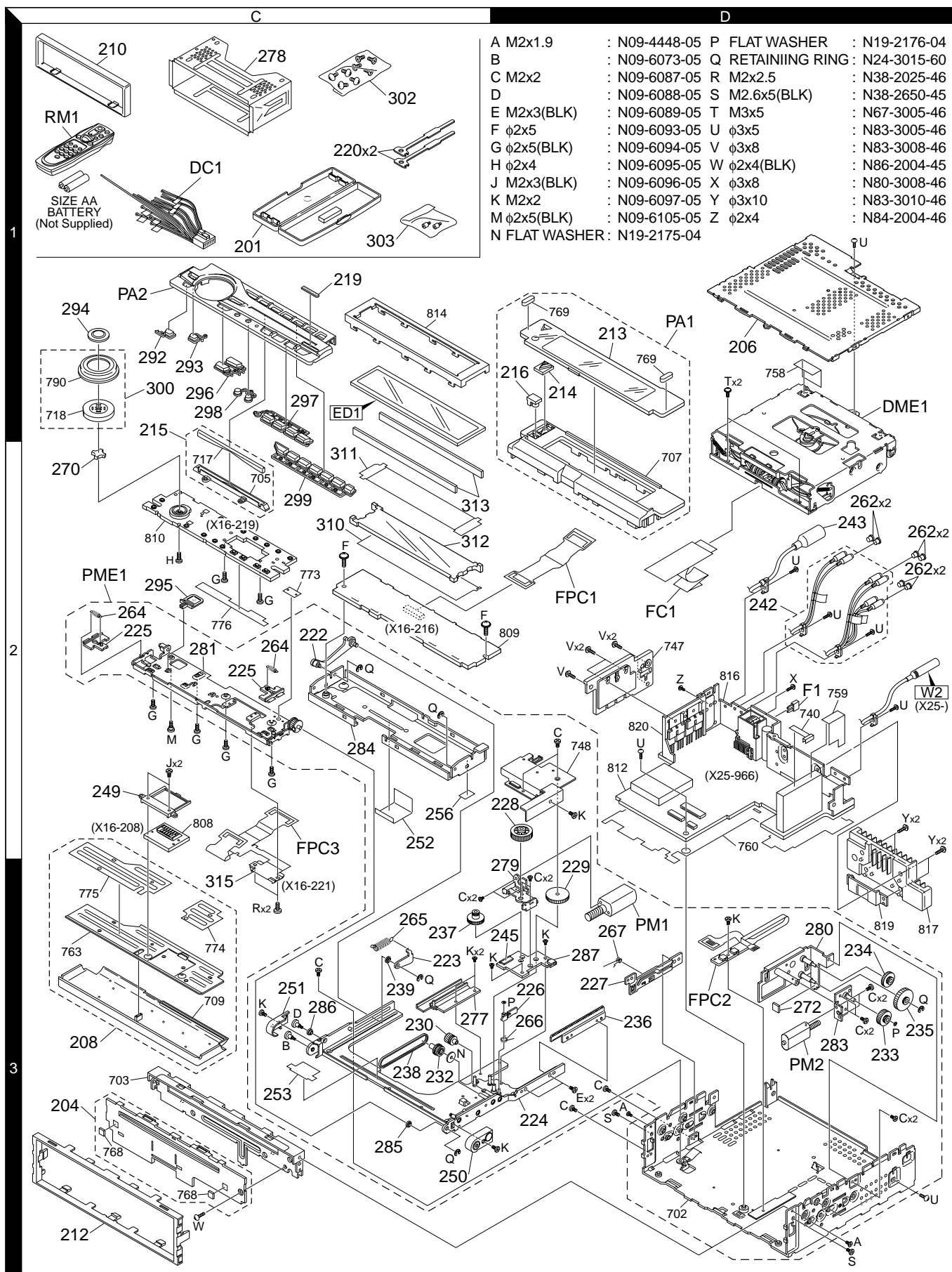
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-V7022					
201	1C	*	A02-2731-03	PLASTIC CABINET ASSY	
204	3C	*	A22-2988-03	SUB PANEL ASSY	
206	1D	*	A52-0831-02	TOP PLATE	
PA1	1D	*	A64-2979-01	PANEL ASSY	
PA2	1C		A64-2995-02	PANEL ASSY	
PME1	2C	*	A10-5029-11	CHASSIS ASSY	
RM1	1C		A70-2040-05	REMOTE CONTROLLER ASSY (RC-505)	
-			B46-0100-50	WARRANTY CARD	
-			B46-0606-04	ID CARD	
-		*	B46-0653-03	USER CARD	
-			B64-2460-00	INSTRUCTION MANUAL (ENGLISH)	
-		*	B64-2461-10	INSTRUCTION MANUAL (FRE.SPA.)	
208	3C		B03-5015-03	DRESSING PLATE ASSY	
210	1C	*	B07-3078-01	ESCUTCHEON	
212	3C	*	B07-3080-02	ESCUTCHEON	
213	1D	*	B10-4386-01	FRONT GLASS	
214	1C	*	B12-1221-04	INDICATOR	
215	1C	*	B12-1222-03	INDICATOR ASSY	
216	1C	*	B19-2201-04	LIGHTING BOARD	
219	1C	*	B43-1505-04	KENWOOD BADGE	
220	1C		D10-4674-04	LEVER	
222	2C	*	D10-4716-04	ARM ASSY	
223	3C	*	D10-4718-04	ARM ASSY	
224	3D	*	D10-4721-11	SLIDER ASSY	
225	2C	*	D10-4749-03	LEVER	
226	3D	*	D10-4750-04	LEVER	
227	3D	*	D12-0637-03	CAM	
228	2D	*	D13-2270-04	GEAR	
229	3D	*	D13-2272-04	GEAR	
230	3C	*	D13-2273-14	GEAR	
232	3C	*	D13-2274-14	GEAR	
233	3D	*	D13-2276-04	GEAR	
234	3D	*	D13-2277-04	GEAR	
235	3D	*	D13-2278-04	GEAR	
236	3D	*	D13-2289-03	RACK (GEAR)	
237	3C	*	D13-2290-04	GEAR ASSY	
238	3C	*	D16-0617-05	BELT	
239	3C	*	D23-0958-04	RETAINER	
242	2D	*	E30-6212-05	CORD WITH PINPLUG (2PR+1AUX)	
243	2D	*	E30-6216-05	CORD WITH DIN CONNECTOR (CH)	
245	3D	*	E41-0351-05	FLAT CABLE CONNECTOR	
DC1	1C		E30-6106-05	DC CORD	
FC1	2D	*	E39-0565-05	FLAT CABLE	
249	2C	*	F07-1121-03	COVER	
250	3C	*	F07-1122-03	COVER	
251	3C	*	F07-1123-03	COVER	
252	2C	*	F09-1794-04	SHEET	
253	3C	*	F09-1798-04	SHEET	
256	2D	*	F09-1842-04	SHEET	
262	2D		F29-0049-05	INSULATING COVER	
F1	2D		F52-0006-05	FUSE (MINI BLADE TYPE)	
264	2C	*	G01-3162-04	EXTENSION SPRING	
265	3C	*	G01-3188-04	EXTENSION SPRING	
266	3C	*	G01-3189-04	TORSION COIL SPRING	
267	3D	*	G01-3199-04	TORSION COIL SPRING	
270	2C	*	G11-3539-04	CUSHION (VOL)	
272	3D	*	G11-3559-04	CUSHION	
-		*	H10-4854-12	POLYSTYRENE FOAMED FIXTURE	
-		*	H21-1151-04	PROTECTION SHEET	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		*	H54-2719-03	ITEM CARTON CASE	
277	3C	*	J19-5220-03	HOLDER	
278	1C		J21-9823-03	MOUNTING HARDWARE ASSY	
279	3D	*	J21-9951-03	MOUNTING HARDWARE ASSY	
280	3D	*	J21-9954-02	MOUNTING HARDWARE ASSY	
281	2C	*	J21-9956-12	MOUNTING HARDWARE ASSY	
283	3D	*	J21-9997-03	MOUNTING HARDWARE ASSY	
284	2C	*	J21-9999-02	MOUNTING HARDWARE ASSY	
285	3C	*	J31-1055-04	COLLAR	
286	3C	*	J31-1056-04	COLLAR	
287	3D	*	J74-1444-04	RIGID PRINTED WIRING BOARD	
FPC1	2D	*	J84-0153-05	FLEXIBLE PRINTED WIRING BOARD	
FPC2	3D	*	J84-0156-04	FLEXIBLE PRINTED WIRING BOARD	
292	1C	*	K24-4004-04	KNOB (PLAY)	
293	1C	*	K24-4005-04	KNOB (EJECT)	
294	1C	*	K24-4006-04	KNOB (ATT)	
295	2C	*	K24-4007-04	KNOB (OPEN)	
296	1C	*	K25-1527-03	KNOB (SRC,Q)	
297	1C	*	K25-1529-03	KNOB (AM/FM)	
298	1C	*	K25-1530-04	KNOB (SCRL)	
299	2C	*	K25-1528-03	KNOB (1-6)	
300	1C	*	K29-7031-03	KNOB ASSY (VOL)	
302	1C		N99-1723-05	SCREW SET	
303	1C	*	N99-1734-05	SCREW SET	
A	3D		N09-4448-05	MACHINE SCREW	
B	3C	*	N09-6073-05	STEPPED SCREW	
C	3D	*	N09-6087-05	MACHINE SCREW	
D	3C	*	N09-6088-05	STEPPED SCREW	
E	3D	*	N09-6089-05	MACHINE SCREW	
F	2C	*	N09-6093-05	TAPTITE SCREW	
G	2C	*	N09-6094-05	MACHINE SCREW	
H	2C	*	N09-6095-05	MACHINE SCREW	
J	2C	*	N09-6096-05	MACHINE SCREW	
K	3C	*	N09-6097-05	MACHINE SCREW	
M	2C	*	N09-6105-05	STEPPED SCREW	
N	2C	*	N19-2175-04	FLAT WASHER	
P	3D	*	N19-2176-04	FLAT WASHER	
Q	2C		N24-3015-60	E TYPE RETAINING RING	
R	3C		N38-2025-46	PAN HEAD MACHIN SCREW	
S	3D	*	N38-2650-45	PAN HEAD MACHIN SCREW	
T	2D		N67-3005-46	PAN HEAD SEMS SCREW	
U	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
V	2D		N83-3008-46	PAN HEAD TAPTITE SCREW	

K : North America

△ Indicates safety critical components.

PARTS LIST

* New parts

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KDC-V7022

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
W	3C		N86-2004-45	BINDING HEAD TAPTITE SCREW	
RLED RPH			RK73GB2A102J RK73GB2A104J	CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W	
SW1 SW2-3 SW4			S68-0871-05 S68-0863-05 S68-0864-05	PUSH SWITCH (PANEL MECHA) PUSH SWITCH (PANEL MECHA) PUSH SWITCH (PANEL MECHA)	
PH PM1 PM2	3D 3D	* *	T95-0212-05 T42-1076-14 T42-1077-04	OPTO ISOLATOR (PANEL MECHA) MOTOR ASSY MOTOR ASSY	
DME1	2D		X92-4450-01	MECHANISM ASSY	
SUB-CIRCUIT UNIT (X16-2080-10)					
J1			E59-0833-15	RECTANGULAR PLUG	
CP1			R90-1019-05	MULTI-COMP 100 X2	
IC1		*	BR24C01AFV-W	MEMORY IC	
SUB-CIRCUIT UNIT (X16-2160-10)					
310 311 312 D11 D50-53	2C 2C 2C	* * *	B11-1405-04 B11-1408-04 B19-2204-02 B30-1564-05 B30-1599-05	REFLECTION SHEET OPTICAL DIFFUSER LIGHTING BOARD LED (1608, BLUE) LED (NICHIA FULL)	
ED1		*	B38-1118-05	LIQUID CRYSTAL	
C1 C2-5 C2-5 C6 C7			CC73GCH1H681J CK73GB1C104K CK73GB1H104K CK73GB1H103K CK73FB1A225K	CHIP C 680PF J CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 2.2UF K	
C11 C12-14 C12-14 C15 C16			CC73GCH1H681J CK73GB1C104K CK73GB1H104K CK73GB1H103K CK73GB1C104K	CHIP C 680PF J CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 0.10UF K	
C16 C21 C50-61 C65-67 C68			CK73GB1H104K CK73GB1H103K CK73GB1H103K CK73FB0J475K CK73GB0J105K	CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 0.010UF K CHIP C 4.7UF K CHIP C 1.0UF K	
313 CN1 CN2	2C	*	E29-1930-04 E40-9364-05 E41-0166-05	CONDUCTIVE RUBBER FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	
CP1 CP4,5 CP50-53 CP54,55 CP56			R90-1016-05 R90-0724-05 R90-1022-05 R90-0720-05 R90-1022-05	MULTI-COMP 470 X4 MULTI-COMP 1K X4 MULTI-COMP 470 X2 MULTI-COMP 100K X4 MULTI-COMP 470 X2	
R1 R2-5 R6 R7,8 R9			RK73GB2A433J RK73GB2A222J RK73GB2A392J RK73GB2A331J RK73GB2A101J	CHIP R 43K J 1/10W CHIP R 2.2K J 1/10W CHIP R 3.9K J 1/10W CHIP R 330 J 1/10W CHIP R 100 J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R10 R11 R12 R13 R14			RK73GB2A102J RK73GB2A4R7J RK73GB2A751J RK73GB2A102J RK73GB2A4R7J	CHIP R 1.0K J 1/10W CHIP R 4.7 J 1/10W CHIP R 750 J 1/10W CHIP R 1.0K J 1/10W CHIP R 4.7 J 1/10W	
R15 R23 R24 R26 R31			RK73GB2A104J RK73GB2A102J RK73GB2A473J RK73GB2A102J RK73GB2A433J	CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W CHIP R 1.0K J 1/10W CHIP R 43K J 1/10W	
R32-35 R36 R41,42 R50,51 R52			RK73GB2A222J RK73GB2A4R7J RK73GB2A122J RK73GB2A151J RK73GB2A221J	CHIP R 2.2K J 1/10W CHIP R 4.7 J 1/10W CHIP R 1.2K J 1/10W CHIP R 150 J 1/10W CHIP R 220 J 1/10W	
R53,54 R55 R56,57 R58 R59,60			RK73GB2A151J RK73GB2A221J RK73GB2A151J RK73GB2A221J RK73GB2A151J	CHIP R 150 J 1/10W CHIP R 220 J 1/10W CHIP R 150 J 1/10W CHIP R 220 J 1/10W CHIP R 150 J 1/10W	
R61 R62-65 R66 R67,68			RK73GB2A221J RK73GB2A271J RK73GB2A4R7J RK73GB2A331J	CHIP R 220 J 1/10W CHIP R 270 J 1/10W CHIP R 4.7 J 1/10W CHIP R 330 J 1/10W	
D1 D2-5 D21,22 D26 IC1			MA3062-M DA204U FT26.8E MA3082-L LC75808W	ZENER DIODE DIODE ZENER DIODE ZENER DIODE MOS-IC	
IC2 IC3 IC4 Q1 Q1			LC75878W RS-171 M62333FP DTA114EUA UN5111	MOS-IC ANALOGUE IC MOS-IC DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q5 Q6 Q6 Q11-16 Q62-64			2SC4081 DTA114EUA UN5111 UMX2N 2SC4081	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
SWITCH UNIT (X16-2190-10)					
D1-11 D12 D13 D14 D15			B30-1605-05 B30-1566-05 B30-1605-05 B30-1566-05 B30-1605-05	LED (2COLOR PG/RED) LED (1608, RED) LED (2COLOR PG/RED) LED (1608, RED) LED (2COLOR PG/RED)	
D16 D17 D18,19 D21			B30-1566-05 B30-1605-05 B30-1566-05 B30-1566-05	LED (1608, RED) LED (2COLOR PG/RED) LED (1608, RED) LED (1608, RED)	
CN1		*	E41-0419-05	FLAT CABLE CONNECTOR	
R1,2 R3-5 R6-9 R10			RK73FB2B511J RK73FB2B331J RK73FB2B511J RK73FB2B471J	CHIP R 510 J 1/8W CHIP R 330 J 1/8W CHIP R 510 J 1/8W CHIP R 470 J 1/8W	

K : North America

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PARTS LIST

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SWITCH UNIT (X16-2190-10)

Ref. No.	Ad	New	Parts No.	Description	Destination	Ref. No.	Ad	New	Parts No.	Description	Destination
R15			RK73GB2A241J	CHIP R 240 J 1/10W		C128			CE04NW1H0R1M	ELECTRO 0.1UF 50WV	
R16-19			RK73GB2A102J	CHIP R 1.0K J 1/10W		C130			CK73GB1E223K	CHIP C 0.022UF K	
S1		*	S70-0901-05	TACT SWITCH		C130			CK73GB1H223K	CHIP C 0.022UF K	
S2,3			S70-0864-05	TACT SWITCH		C131			CE04NW1H010M	ELECTRO 1.0UF 50WV	
S4			S70-0856-05	TACT SWITCH		C132			CK73GB1H102K	CHIP C 1000PF K	
S5-8			S70-0864-05	TACT SWITCH		C134,135			CK73GB1H103K	CHIP C 0.010UF K	
S9			S70-0856-05	TACT SWITCH		C200			CE04NW0J470M	ELECTRO 47UF 6.3WV	
S10-13			S70-0864-05	TACT SWITCH		C201			CK73GB1H103K	CHIP C 0.010UF K	
S14			S70-0856-05	TACT SWITCH		C202			CC73GCH1H220J	CHIP C 22PF J	
S15-18			S70-0864-05	TACT SWITCH		C203			CC73GCH1H270J	CHIP C 27PF J	
S19			S70-0856-05	TACT SWITCH		C204			CK73GB0J105K	CHIP C 1.0UF K	
S20			S70-0864-05	TACT SWITCH		C206			CK73GB0J105K	CHIP C 1.0UF K	
S21		*	T99-0445-05	ROTARY ENCODER		C207,208			CK73GB1H103K	CHIP C 0.010UF K	
D20			DAP202U	DIODE		C211			CK73GB1H102K	CHIP C 1000PF K	
D20			MA142WA	DIODE		C213			CK73GB1H103K	CHIP C 0.010UF K	
Q1			DTA114YUA	DIGITAL TRANSISTOR		C250			CE04NW1C470M	ELECTRO 47UF 16WV	
Q1			UN5114	DIGITAL TRANSISTOR		C251			CK73GB1H103K	CHIP C 0.010UF K	
Q2,3			2SC4081	TRANSISTOR		C252			CE04NW1H2R2M	ELECTRO 2.2UF 50WV	
SUB-CIRCUIT UNIT (X16-2210-10)						C253,254			CK73GB1C104K	CHIP C 0.10UF K	
315	2C	*	E58-0968-05	RECTANGULAR RECEPTACLE		C253,254			CK73GB1H104K	CHIP C 0.10UF K	
FPC3	2C	*	J84-0154-05	FLEXIBLE PRINTED WIRING BOARD		C255			CE04NW1H010M	ELECTRO 1.0UF 50WV	
ELECTRIC UNIT (X25-9660-11)						C256			CE04NW1C330M	ELECTRO 33UF 16WV	
C1,2			CE04NW1HR47M	ELECTRO 0.47UF 50WV		C257			C90-2935-05	ELECTRO 1.0UF 50WV	
C3,4			CK73FB1C474K	CHIP C 0.47UF K		C258			CE04NW1H010M	ELECTRO 1.0UF 50WV	
C5,6			CE04NW0J470M	ELECTRO 47UF 6.3WV		C259-262			CK73GB1A224K	CHIP C 0.22UF K	
C7,8			CK73FB1C474K	CHIP C 0.47UF K		C401			CK73GB1H103K	CHIP C 0.010UF K	
C9			CK73GB1A474K	CHIP C 0.47UF K		C403			CK73GB1H103K	CHIP C 0.010UF K	
C10			CC73GCH1H151J	CHIP C 150PF J		C405			CK73GB1H103K	CHIP C 0.010UF K	
C11			CK73GB1E223K	CHIP C 0.022UF K		C407			CK73GB1H103K	CHIP C 0.010UF K	
C11			CK73GB1H223K	CHIP C 0.022UF K		CN1			E41-0224-05	PIN ASSY	
C12			CK73GB1H103K	CHIP C 0.010UF K		CN2			E40-3237-05	PIN ASSY	
C13-16			CK73FB1H104K	CHIP C 0.10UF K		CN3	*		E41-0384-05	PIN ASSY	
C21-24			CK73FB1C105K	CHIP C 1.0UF K		CN4			E40-9527-05	FLAT CABLE CONNECTOR	
C31-34			C90-5296-05	NP-ELECT 0.22UF 50WV		CN4			E41-0213-05	FLAT CABLE CONNECTOR	
C41,42			CE04NW1V3R3M	ELECTRO 3.3UF 35WV		CN5			E40-9368-05	FLAT CABLE CONNECTOR	
C49,50			CE04NW1V3R3M	ELECTRO 3.3UF 35WV		CN6	*		E41-0399-05	FLAT CABLE CONNECTOR	
C67			CK73FB1H104K	CHIP C 0.10UF K		CN7	*		E41-0009-05	PIN ASSY	
C69			CK73FB1H104K	CHIP C 0.10UF K		J1			E58-0863-15	RECTANGULAR RECEPTACLE	
C70,71			CK73GB1H103K	CHIP C 0.010UF K		W2	*		E30-6218-05	CORD WITH PLUG	
C100			C90-5235-05	ELECTRO 2200UF 16WV		L1			L33-1170-05	CHOKE COIL ASSY	
C101			CK73GB1H103K	CHIP C 0.010UF K		L4			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C102			C90-2866-05	ELECTRO 220UF 16WV		L5			L92-0075-05	CHIP FERRITE	
C103			CK73GB1H103K	CHIP C 0.010UF K		L6			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH,J)	
C104			CE04NW1C100M	ELECTRO 10UF 16WV		L7			L33-1039-05	LINE FILTER COIL	
C105			CE04NW0J101M	ELECTRO 100UF 6.3WV		L11,12			L40-4795-34	SMALL FIXED INDUCTOR	
C106			CK73GB1A474K	CHIP C 0.47UF K		L11,12			L40-4795-68	SMALL FIXED INDUCTOR (4.7UH)	
C107			CK73FB1C105K	CHIP C 1.0UF K		X1			L78-0821-05	RESONATOR	
C108			CE04CW1A221M	ELECTRO 220UF 10WV		X2			L77-2738-05	CRYSTAL RESONATOR	
C109			CE04CW1A101M	ELECTRO 100UF 10WV		U	2D		N83-3005-46	PAN HEAD TAPTITE SCREW	
C126			CE04NW1V3R3M	ELECTRO 3.3UF 35WV		X	2D		N80-3008-46	PAN HEAD TAPTITE SCREW	
C127			CK73GB1C683K	CHIP C 0.068UF K		Y	2D		N83-3010-46	PAN HEAD TAPTITE SCREW	
C127			CK73GB1H683K	CHIP C 0.068UF K		Z	2D		N84-2004-46	PAN HEAD TAPTITE SCREW	
						R1,2			RK73EB2E100J	CHIP R 10 J 1/4W	
						R3,4			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	

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ELECTRIC UNIT (X25-9660-11)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R5,6 R7 R8 R9,10 R21,22			RK73EB2E100J RK73GB2A472J RK73GB2A103J RK73FB2B333J RK73GB2A361J	CHIP R 10 J 1/4W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W CHIP R 33K J 1/8W CHIP R 360 J 1/10W	
R23,24 R31,32 R45,46 R47,48 R55,56			RK73GB2A223J RK73EB2E181J RK73GB2A361J RK73GB2A223J RK73EB2E181J	CHIP R 22K J 1/10W CHIP R 180 J 1/4W CHIP R 360 J 1/10W CHIP R 22K J 1/10W CHIP R 180 J 1/4W	
R60,61 R100 R101 R102 R103			RK73GB2A102J RK73FB2B223J RK73GB2A101J RK73GB2A222J RK73GB2A223J	CHIP R 1.0K J 1/10W CHIP R 22K J 1/8W CHIP R 100 J 1/10W CHIP R 2.2K J 1/10W CHIP R 22K J 1/10W	
R104 R105 R106 R107 R108			RK73FB2B221J RK73GB2A153J R92-3047-05 R92-3032-05 RK73FB2B152J	CHIP R 220 J 1/8W CHIP R 15K J 1/10W CHIP R 24K D 1/10W CHIP R 4.3K D 1/10W CHIP R 1.5K J 1/8W	
R112 R124 R125,126 R127 R128,129			RK73FB2B152J RK73FB2B472J RD14DB2H102J RK73GB2A223J RD14DB2H102J	CHIP R 1.5K J 1/8W CHIP R 4.7K J 1/8W SMALL-RD 1.0K J 1/2W CHIP R 22K J 1/10W SMALL-RD 1.0K J 1/2W	
R130 R131 R133 R135 R138			RK73GB2A223J RK73FB2B472J RK73GB2A104J RK73GB2A104J RK73GB2A223J	CHIP R 22K J 1/10W CHIP R 4.7K J 1/8W CHIP R 100K J 1/10W CHIP R 100K J 1/10W CHIP R 22K J 1/10W	
R139 R140 R141 R142 R143			RK73FB2B103J RK73GB2A103J RK73GB2A822J RK73GB2A183J RD14DB2H332J	CHIP R 10K J 1/8W CHIP R 10K J 1/10W CHIP R 8.2K J 1/10W CHIP R 18K J 1/10W SMALL-RD 3.3K J 1/2W	
R144 R145 R148 R200 R201			RK73EB2E473J RK73GB2A104J RK73EB2E103J RK73GB2A153J RK73GB2A103J	CHIP R 47K J 1/4W CHIP R 100K J 1/10W CHIP R 10K J 1/4W CHIP R 15K J 1/10W CHIP R 10K J 1/10W	
R202 R205,206 R207 R208,209 R212,213			RK73GB2A104J RK73GB2A103J RK73GB2A104J RK73GB2A103J RK73GB2A102J	CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W	
R214,215 R216,217 R218 R219,220 R221-224			RK73GB2A472J RK73GB2A102J RK73GB2A222J RK73GB2A101J RK73GB2A102J	CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W	
R228 R229 R230 R231 R232			RK73GB2A102J RK73GB2A104J RK73GB2A102J RK73GB2A104J RK73GB2A102J	CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R233 R234-240 R241 R245,246 R247			RK73GB2A104J RK73GB2A222J RK73GB2A102J RK73GB2A102J RK73GB2A104J	CHIP R 100K J 1/10W CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W	
R248 R250-253 R254,255 R256,257 R259			RK73GB2A102J RK73GB2A104J RK73GB2A222J RK73GB2A104J RK73GB2A102J	CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 2.2K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W	
R260,261 R262 R264 R265 R266			RK73GB2A222J RK73GB2A102J RK73GB2A222J RK73GB2A104J RK73GB2A102J	CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W	
R267 R268 R269 R270,271 R272			RK73GB2A473J RK73GB2A333J RK73GB2A472J RK73GB2A471J RK73GB2A472J	CHIP R 47K J 1/10W CHIP R 33K J 1/10W CHIP R 4.7K J 1/10W CHIP R 470 J 1/10W CHIP R 4.7K J 1/10W	
R273 R274 R275 R277,278 R279,280			RK73GB2A222J RK73GB2A102J RK73GB2A104J RK73GB2A471J RK73GB2A472J	CHIP R 2.2K J 1/10W CHIP R 1.0K J 1/10W CHIP R 100K J 1/10W CHIP R 470 J 1/10W CHIP R 4.7K J 1/10W	
R283 R285 R300,301 R302 R303			RK73GB2A103J RK73GB2A102J RK73GB2A472J RK73GB2A221J RK73GB2A223J	CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W CHIP R 4.7K J 1/10W CHIP R 220 J 1/10W CHIP R 22K J 1/10W	
R305 R306 R307 R312 R313-317			RK73GB2A432J RK73GB2A100J RK73GB2A622J RK73EB2E101J RK73EB2E472J	CHIP R 4.3K J 1/10W CHIP R 10 J 1/10W CHIP R 6.2K J 1/10W CHIP R 100 J 1/4W CHIP R 4.7K J 1/4W	
R318,319 R321-323 R324,325 R326 R327,328			RK73EB2E101J RK73GB2A222J RK73GB2A472J RK73GB2A104J RK73GB2A472J	CHIP R 100 J 1/4W CHIP R 2.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 100K J 1/10W CHIP R 4.7K J 1/10W	
R329 R330,331 R332 R402 R403			RK73EB2E472J RK73EB2E101J RK73EB2E471J RK73FB2B102J RK73GB2A223J	CHIP R 4.7K J 1/4W CHIP R 100 J 1/4W CHIP R 470 J 1/4W CHIP R 1.0K J 1/8W CHIP R 22K J 1/10W	
D1 D2 D3 D4 D6			1N5393G-M5 RB160L-40 MA4056(N)-M MA4082(N)-L MA4110-L	DIODE DIODE ZENER DIODE ZENER DIODE ZENER DIODE	
D9-12 D9-12 D13 D16 D17			S1J 1SR154-400 1SS133 MA4068(N)-M MA4062(N)-M	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	

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ELECTRIC UNIT (X25-9660-11)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D20			1SS133	DIODE	
D23,24			DAP202U	DIODE	
D23,24			MA142WA	DIODE	
D25-27			RD6.8M(B2)	ZENER DIODE	
D28			RD6.8MW	ZENER DIODE	
D29-31			1SS133	DIODE	
D33-40			S1J	DIODE	
D33-40			1SR154-400	DIODE	
D50			RD6.8M(B2)	ZENER DIODE	
D51			RD6.8MW	ZENER DIODE	
D52,53			MA3062WA	ZENER DIODE	
D60			MA3062WA	ZENER DIODE	
D62			MA3062WA	ZENER DIODE	
D63-65			DA204U	DIODE	
D66			IMSA-6801	SURGE ABSORBER	
IC1		*	UPD703030GC015	MI-COM IC	
IC2			TDA7411	ANALOGUE IC	
IC3			M5237ML	ANALOGUE IC	
IC4			TDA7560	ANALOGUE IC	
IC7			S-80837CNNB	MOS-IC	
IC8			TC74HC02AF	MOS-IC	
IC13,14			LB1930M	ANALOGUE IC	
IC15			BR24C01AF-W	ROM IC	
Q1			2SA2057	TRANSISTOR	
Q2			2SC4081	TRANSISTOR	
Q3			2SA1576A	TRANSISTOR	
Q4			DTA124EUA	DIGITAL TRANSISTOR	
Q4			UN5112	DIGITAL TRANSISTOR	
Q5			DTC124EUA	DIGITAL TRANSISTOR	
Q5			UN5212	DIGITAL TRANSISTOR	
Q6			DTC144EUA	DIGITAL TRANSISTOR	
Q6			UN5213	DIGITAL TRANSISTOR	
Q7			DTA124EUA	DIGITAL TRANSISTOR	
Q7			UN5112	DIGITAL TRANSISTOR	
Q8,9			2SA2057	TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	
Q11			UN5212	DIGITAL TRANSISTOR	
Q12			DTA124EUA	DIGITAL TRANSISTOR	
Q12			UN5112	DIGITAL TRANSISTOR	
Q13			2SA2057	TRANSISTOR	
Q14			2SC4081	TRANSISTOR	
Q23			DTC114YUA	DIGITAL TRANSISTOR	
Q23			UN5214	DIGITAL TRANSISTOR	
Q24,25			2SB1240	TRANSISTOR	
Q26			DTC114YUA	DIGITAL TRANSISTOR	
Q26			UN5214	DIGITAL TRANSISTOR	
Q27			2SA1576A	TRANSISTOR	
Q28			DTA124EUA	DIGITAL TRANSISTOR	
Q28			UN5112	DIGITAL TRANSISTOR	
Q30			DTC144EUA	DIGITAL TRANSISTOR	
Q30			UN5213	DIGITAL TRANSISTOR	
Q32-34			2SC4081	TRANSISTOR	
Q51,52			DTA124EUA	DIGITAL TRANSISTOR	
Q51,52			UN5112	DIGITAL TRANSISTOR	
Q53			DTC143TUA	DIGITAL TRANSISTOR	
Q53			UN5216	DIGITAL TRANSISTOR	
Q54			DTC124EUA	DIGITAL TRANSISTOR	
Q54			UN5212	DIGITAL TRANSISTOR	
Q55,56			DTC143TUA	DIGITAL TRANSISTOR	
Q55,56			UN5216	DIGITAL TRANSISTOR	
Q59,60			DTC143TUA	DIGITAL TRANSISTOR	
Q59,60			UN5216	DIGITAL TRANSISTOR	
Q63			DTA124EUA	DIGITAL TRANSISTOR	
Q63			UN5112	DIGITAL TRANSISTOR	
Q102			DTC124EUA	DIGITAL TRANSISTOR	
Q102			UN5212	DIGITAL TRANSISTOR	
Q103			2SB1188(Q,R)	TRANSISTOR	
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	
A1		*	X86-3730-11	FRONT-END UNIT	
CD PLAYER UNIT (X32-5200-00)					
C1,2			CK73GB0J105K	CHIP C	1.0UF K
C3			CK73FB1A225K	CHIP C	2.2UF K
C4			C92-0566-05	CHIP-TAN	10UF 6.3WV
C5			CC73GCH1H220J	CHIP C	22PF J
C6			CC73GCH1H030C	CHIP C	3.0PF C
C7			CK73GB1C104K	CHIP C	0.10UF K
C8			CK73GB0J105K	CHIP C	1.0UF K
C10			CK73GB1H472K	CHIP C	4700PF K
C11			CK73GB1H682K	CHIP C	6800PF K
C12			CK73GB1H332K	CHIP C	3300PF K
C13			CK73GB1C333K	CHIP C	0.033UF K
C14			CK73GB1H472K	CHIP C	4700PF K
C15			CK73GB1E473K	CHIP C	0.047UF K
C16			CC73GCH1H221J	CHIP C	220PF J
C17			CK73GB1H472K	CHIP C	4700PF K
C18			CC73GCH1H331J	CHIP C	330PF J
C19,20			CK73GB1C104K	CHIP C	0.10UF K
C21			CK73FB1A225K	CHIP C	2.2UF K
C23			CK73GB1H102K	CHIP C	1000PF K
C24			CK73GB1E223K	CHIP C	0.022UF K
C25			CK73GB1H153K	CHIP C	0.015UF K
C26			CK73GB0J105K	CHIP C	1.0UF K
C28			CK73GB0J105K	CHIP C	1.0UF K
C29			CK73GB1C104K	CHIP C	0.10UF K
C33			CK73GB1C104K	CHIP C	0.10UF K
C35			CK73GB1C104K	CHIP C	0.10UF K
C39			CK73GB1H152K	CHIP C	1500PF K
C40			CK73GB1H103K	CHIP C	0.010UF K
C41			CK73EB1C225K	CHIP C	2.2UF K
C42			CK73GB1H152K	CHIP C	1500PF K
C44			CK73GB1H103K	CHIP C	0.010UF K
C46			CK73GB1E473K	CHIP C	0.047UF K
C51			CK73GB1C104K	CHIP C	0.10UF K
C55			CK73GB1C104K	CHIP C	0.10UF K
C67,68			CK73GB1C104K	CHIP C	0.10UF K
C71,72			CK73GB1H471K	CHIP C	470PF K
C77,78			CC73GCH1H680J	CHIP C	68PF J
C79,80			CK73GB1H222K	CHIP C	2200PF K
C85			CK73GB1C104K	CHIP C	0.10UF K

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CD PLAYER UNIT (X32-5200-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C89			CK73GB1H222K	CHIP C 2200PF K	
CN1			E40-9536-05	FLAT CABLE CONNECTOR	
CN1			E41-0193-05	FLAT CABLE CONNECTOR	
CN2			E40-9527-05	FLAT CABLE CONNECTOR	
CN2			E41-0213-05	FLAT CABLE CONNECTOR	
X1			L78-0851-05	RESONATOR (16.93MHZ)	
CP1			R90-1019-05	MULTI-COMP 100 X2	
CP2			R90-1014-05	MULTI-COMP 100 X4	
R3			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R5			RK73GB2A361J	CHIP R 360 J 1/10W	
R6			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R7			RK73GB2A104J	CHIP R 100K J 1/10W	
R8			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R9			RK73FB2B100J	CHIP R 10 J 1/8W	
R10,11			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R12			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R13			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R15			RK73GB2A824J	CHIP R 820K J 1/10W	
R16			RK73GB2A223J	CHIP R 22K J 1/10W	
R17			RK73GB2A393J	CHIP R 39K J 1/10W	
R18			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R19			RK73GB2A473J	CHIP R 47K J 1/10W	
R20			RK73GB2A104J	CHIP R 100K J 1/10W	
R21			RK73GB2A244J	CHIP R 240K J 1/10W	
R22			RK73GB2A623J	CHIP R 62K J 1/10W	
R32			RK73GB2A683J	CHIP R 68K J 1/10W	
R34			RK73GB2A363J	CHIP R 36K J 1/10W	
R35			RK73GB2A104J	CHIP R 100K J 1/10W	
R36			RK73GB2A151J	CHIP R 150 J 1/10W	
R37			RK73GB2A471J	CHIP R 470 J 1/10W	
R38			RK73GB2A224J	CHIP R 220K J 1/10W	
R40			RK73GB2A133J	CHIP R 13K J 1/10W	
R46			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R47			RK73GB2A103J	CHIP R 10K J 1/10W	
R49			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R52			RK73GB2A104J	CHIP R 100K J 1/10W	
R53			RK73GB2A103J	CHIP R 10K J 1/10W	
R54			RK73GB2A104J	CHIP R 100K J 1/10W	
R70			RK73GB2A103J	CHIP R 10K J 1/10W	
R71			RK73GB2A183J	CHIP R 18K J 1/10W	
R73			RK73GB2A683J	CHIP R 68K J 1/10W	
R74			RK73GB2A123J	CHIP R 12K J 1/10W	
R75			RK73GB2A333J	CHIP R 33K J 1/10W	
R76			RK73GB2A103J	CHIP R 10K J 1/10W	
R79,80			RK73GB2A103J	CHIP R 10K J 1/10W	
R81			RK73GB2A333J	CHIP R 33K J 1/10W	
R82			RK73GB2A223J	CHIP R 22K J 1/10W	
R84			RK73GB2A103J	CHIP R 10K J 1/10W	
R101,102			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R103,104			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R107,108			RK73FB2B331J	CHIP R 330 J 1/8W	
R110			RK73FB2B201J	CHIP R 200 J 1/8W	
R117,118			RK73FB2B203J	CHIP R 20K J 1/8W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R121,122			RK73FB2B203J	CHIP R 20K J 1/8W	
R125,126			RK73FB2B203J	CHIP R 20K J 1/8W	
R202			RK73GB2A104J	CHIP R 100K J 1/10W	
R213			RK73GB2A104J	CHIP R 100K J 1/10W	
R218			RK73GB2A473J	CHIP R 47K J 1/10W	
R233			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R234			RK73GB2A103J	CHIP R 10K J 1/10W	
S1,2			S68-0863-05	PUSH SWITCH	
S3			S68-0862-05	PUSH SWITCH	
D1			DAN202U	DIODE	
D2			MA8051-L	ZENER DIODE	
D3			DA204U	DIODE	
D4			DAN202U	DIODE	
IC1			AN22002AA	ANALOGUE IC	
IC2			MN662773KH2	MOS-IC	
IC4			BA5824FP	ANALOGUE IC	
IC6			NJM4580M1	ANALOGUE IC	
Q1			MCH6101	TRANSISTOR	
Q2			DTC124EUA	DIGITAL TRANSISTOR	
Q3			DTA143XUA	DIGITAL TRANSISTOR	
Q4			2SA1362(Y)	TRANSISTOR	
Q5			DTC124EUA	DIGITAL TRANSISTOR	
CD MECHANISM ASSY (X92-4450-01)					
2	1B		A10-4827-12	CHASSIS	
5	1B		D10-4576-43	ARM ASSY	
8	2A		D10-4579-03	LEVER ASSY	
10	3A		D10-4581-13	ARM	
11	2A		D10-4582-13	ARM	
12	3A		D10-4583-03	ARM	
13	3A		D10-4584-03	ARM	
14	3B		D10-4585-03	ARM	
15	2A		D10-4586-13	SLIDER	
16	3B		D10-4587-22	SLIDER	
17	3B		D10-4588-13	SLIDER	
18	3B		D10-4595-04	ARM	
19	3B		D10-4596-14	ARM	
22	2A		D13-2151-04	GEAR	
23	2B		D13-2152-04	GEAR	
24	3B		D13-2153-04	GEAR	
25	3B		D13-2154-04	GEAR	
26	3B		D13-2155-04	WORM	
27	3B		D13-2156-14	GEAR	
28	3B		D13-2157-04	GEAR	
29	3B		D13-2158-04	GEAR	
30	3B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	2B		D13-2172-03	RACK (GEAR)	
33	2A		D14-0759-04	ROLLER	
35	2B		D21-2382-04	SHAFT	
36	1A		D23-0954-04	RETAINER	
37	1B		D39-0246-05	DAMPER	
38	2B		G01-3072-04	EXTENSION SPRING	

K : North America

△ Indicates safety critical components.

PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

CD MECHANISM ASSY (X92-4450-01)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
39	2A		G01-3073-04	TORSION COIL SPRING							
40	2A		G01-3074-04	EXTENSION SPRING							
41	1B		G01-3075-04	EXTENSION SPRING							
42	2A		G01-3076-04	EXTENSION SPRING							
43	1B		G01-3077-04	EXTENSION SPRING							
44	2B		G02-1399-04	FLAT SPRING							
45	2B		G02-1408-04	FLAT SPRING							
51	1A		J21-9676-22	MOUNTING HARDWARE							
52	3B		J21-9677-02	MOUNTING HARDWARE							
53	1B		J21-9678-03	MOUNTING HARDWARE							
55	1A		J90-1001-11	GUIDE							
56	1B		J90-1023-03	GUIDE							
A	2B		N09-4460-05	TAPTITE SCREW (OVAL P TAPTIT)							
B	1B		N09-4472-05	MACHINE SCREW (M1.7X8.5)							
C	2B		N09-6004-05	MACHINE SCREW (M1.7X2.5 IB-L)							
E	2B		N09-6007-05	MACHINE SCREW (PAN M2X2)							
F	1A		N09-6051-05	TAPTITE SCREW (BIND P 2X5)							
G	2A		N19-2163-04	FLAT WASHER							
H	1B		N39-2020-46	PAN HEAD MACHIN SCREW							
J	1B		N09-6108-05	MACHINE SCREW (M2*3.5TYPE3)							
DM1	3B		T42-1066-04	DC MOTOR ASSY (SP)							
DM2	2B		T42-1067-04	DC MOTOR ASSY (LO)							
DPU1	2D		X93-2000-00	OPTICAL PICKUP ASSY							

KDC-V7022

SPECIFICATIONS

FM

Frequency Range (Frequency step)	87.9MHz~107.9MHz (200kHz)
Channel Space Selection	50kHz/200kHz
Usable Sensitivity (S/N 30dB)	9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N 50dB)	15.2dBf (1.6μV/75Ω)
Frequency Response (±3.0dB)	30Hz~15kHz
S/N	70dB (MONO)
Selectivity	≥ 80dB (±400kHz)
Stereo Separation	40dB (1kHz)

AM

Frequency Range (Frequency step)	530kHz~1700kHz (10kHz)
Channel Space Selection	9kHz/10kHz
Usable Sensitivity (S/N 20dB)	28dBμ (25μV)

CD

Laser Diode	GaAlAs (λ=780nm)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Spindle Speed (CD-DA)	500~200rpm (CLV)
Wow & Flutter	Below Measurable Limit
Frequency Response	10Hz~20kHz (±1dB)
Total Harmonic Distortion	0.01% (1kHz)
S/N Ratio	105dB (1kHz)
Dynamic Range	93dB
Channel Separation	95dB

Preout Level/Load (Unbalanced)	2000mV/10kΩ (CD/CD-CH)
Preout Impedance	≤ 600Ω

AUX Input

Frequency Response	20Hz~20kHz±1dB
Input Maximum Voltage	1200mV
Input impedance	100kΩ

Amplifier

Maximum Power	50Wx4
Full Bandwidth Power (at less than 1% THD)	22Wx4

Tone

Bass	100Hz±10dB
Middle	1kHz±10dB
Treble	10kHz±10dB

General

Operating Voltage (11V~16V allowable)	14.4V
Current Consumption	10A
Installation Size (WxHxD)	178x50x165 (mm)
.....	7x1-15/16x6-1/2 (in)
Weight	3.75lbs (1.70kg)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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